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Reviewing the Reviewer

Writers and editors of computer magazines like to think that they provide a great source of information on the rapidly changing field of technology. Unfortun-

ately, not all editors have a common problem. This problem is that of product awareness and understanding the products they are given to review. It is not a general CTS review Editor's Top Story, it is often the reviewer not giving a product sufficient time to evaluate the technology and its implications.

As writers and editors we try to ensure the thoughts and actions of the average user but this often results in complete products getting short changed. When it is time to happen to the average person looking at these things? It is clear that we try to address, in the world of technology between people do question. They do make a comment on understanding a concept, especially software or hardware use, as consumers we have expertise in these areas to write our opinions.

We often get products that we feel too complex for us to do real justice to in a review without one of our writers, printing an advanced degree in the subject, software technology software such as Lotus Notes, most interesting products like Windows NT, Server or Network, Networking software, we have the ability to write the product and identify what is in what, here are my thoughts on Apple's PowerMac.

Reviewer's Thoughts

My quest for the ultimate in personal system continues. Despite reviews of this column will be beginning to see a trend here. I use personal information management software on my computer. I even get the software version to share goals with my employees. I had a notebook computer, but wasn't just a top for two days and was a very small and portable. I had a small, but I still like to see reviews. I have the feeling that we have been given by ourselves and couldn't be both and with the desktop system units. I told you and I got tired of putting around the extra weight. The only look computer man seemed to be there when I wanted to use it.

Typing is also distracting when talking to people on the phone, or in meetings and I usually end up scribbling away notes in little paper airplanes. The idea of a pen-based computer has appeared to me for a while. Review of the thought of carrying with you. I had requested a demo from the pen-based Personal Digital Assistant (PDA) from Apple Canada, but a sign not been forthcoming. I speculated on buying one at retail for around \$1,000, but held off because I sensed the bulk on my desktop (and for something I was not sure I would use). Then I noticed they were selling off the original "discontinued" Newton Model 100 for \$175 in an ad in the back of a 2-3 computer magazine. I couldn't resist trying it out for that price, so I ordered one up.

What I Told To Go

I made the mistake of purchasing it without all the goodies that could have accompanied it with my work. I argued with myself "That's not a exaggeration—just get the book and use it if it's worthwhile before you know the whole and on the factory shelf."

What good is a PDA if it can't talk to your other computer? What good is a PDA if it has no modem and can't get you e-mail? These extras would have added at least \$300 to the package but I wish to know they probably would have added considerably to the utility. My big problem was that I just could not get it just to make with the unit. The first was the handwriting recognition and the second was battery life.

Handwriting Analysis

Spending time with the unit definitely helps improve handwriting recognition, but it is not that easy. Put it this way if you remain idle (unproductive) with how you have spent considerable time in your educational system, you probably won't have the persistence to use the handwriting recognition time. Making the most of all the tricks to using the unit, also definitely helps. There is a few very useful tricks that make it that more productive — like the thing like learning letters when a type even in double tapping on a word brings up optional recognition pages and a little keyboard so you can enter the letters of words the system just can't guess at.

The unit's word recognition instead of letter-recognition, so they can guess at the word you wrote based on a dictionary of only about 10,000 words. You can add words up to a point, but guess that the English language is composed of four hundred of thousands of words in a 14,000 words. The system is very good and accurate, it gets most words wrong.

Battery Problems

Another big problem with the Newton is that they consume batteries like the old Sharpshooter and open old games. Most that after a few days work and I haven't gotten around to replacing them yet. So the unit sits there idle and wastes the needs of today's technology. I know I should get it a longer life but I will probably end up thinking this one into the office and let some one else make a call or get it going in a week, personally someone with good handwriting skills and more patience.

Other Problems

I was also disappointed that the unit lacked a built-in spreadsheet, a big oversight especially since it seems to be very good at managing numbers.

Should You Buy One?

The new reviews of these units like the Newton 120, are supposed to be quite improved. The handwriting recognition is quite good, but the unit is a little slow. How does it change again and a sign of that unit will work in increase their ability first and foremost you need to look at the way you work and check your own tolerance for things. Things if you have not of time get it a while. They are not worth it if you don't get it in work. Perhaps one day they will work for me too.

In conclusion, it seems that when we see products, we should also see the reviewer's in this case.

Handwriting From
Futuristic Questions, Low
Enjoy the cost

Douglas Alder
Editor/Editor

Ed. Please fill out our reader survey on page

Would You Report This?



Of Course You Would

If you were a teenager in progress, or a bank loaned you a calculator. Nobody would. It's the right thing to do. Since most aren't as noble but they're extremely serious. Software piracy in Canada results in losses of more than \$300 million each year — sharply reducing job creation and research and development.

And it's not only to users of illegal software products themselves by denying themselves valuable technical support. They risk the possibility of financially increasing the spread of dangerous viruses.

A number of businesses and organizations have already agreed not to have serious ties to illegal software piracy. The Canadian Alliance Against Software Theft (CAAST) has been

involved in legal proceedings against illegal bulletin board operators, a business college, a corporate and several university party of 11 after conflicting in illegal software or "building" — unauthorized copying of software. More than \$500,000 has been recovered.

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(symptoms don't sound like it is a random-related problem).

You will, however, get slightly better throughout if you go to a 32-bit OS such as Windows 95 or OS/2 Warp, as these OSs use the buffer in a 16-bit UART more efficiently than WinA's does. The 16-bit OSs, in fact, show two signs: it won't fail to boot but WinA's only isn't something like one byte in buffer overflow data.

If you are using an external modem, you need a hardware handshaking cable for fast results and if your PC is an old one and your modem is external, you might use the alternative type of UART, which you should upgrade for the 16-bit.

Apple, oranges and the Occasional Bottom Up

I have to applaud you for being more balanced on your coverage of various computing platforms. I was wondering if your publications would be able to address an inequality (in my eyes) that most other magazines do: something with PC or Windows in the mix, since that when comparing computers the above mentioned magazines will only focus on their preferred platform and give them a lot of positive ratings. Comments on the "other" platform is I know to an old one but I would like to see a balanced impression of all desktop computers when using model is cost performance comparison. When I see headlines of "That SystemX Future PC rival!" I get extremely annoyed because as a tech user I know that the OS/2 Alpha edge chips, is the PC, hold an edge over the Pentium in many areas. It is by simply doubling a chip on a board then cost normally make it there.

Now when you have access to a beta or Capital I wouldn't mind seeing some good hard looked in to after all the first press that tells the public, really. In years of reading MacWorld it is nothing a single word here, maybe a little coverage of that point would add a little balance to the as the second is concerned. I hope that my remarks will be taken with a grain of salt and maybe you'll be able to the MacWorld get a little more for press.

David Lee Anderson, via Internet

BT speaks. We're got some good news and bad news. Well, scheduled for our August issue is a full test report on desktop "mainframes," as which we will be looking at several others. This feature will offer workstation class machines like Alpha and Sparcstations in the place. It's just that the approach on which we have to cut our teeth on the last.

The bad news... but only from a little or OS/2 users perspective. I suppose it is that with other in including extensive coverage of Windows 95 as August. The "official" release date has been announced in August 24 and many have said... and Microsoft itself... have suggested that the current date is very close to when we'll be in the official commercial release.

This will be an important release of an important operating system, despite what all the Microsoft America or Windows feature says. It will show a major impact on the market of the OS other means than the above numbers of computer users. I will, particularly after... most computer users on PC users... and the majority of PC users are Windows users.

Building a Consensus

What is the probability that there will be a computer: chess champion by 2005? Between 75 and 95 percent. What is the probability

that America will have nuclear capability by 2000? Between 40 and 60 percent. What is the probability that individuals chosen with special Mailman's complex by July 1997? Between 57 and 59 percent.

Where do these probabilities come from? They come from the idea known as long-run or as the old adage.

This project is a unique application of the MATHS in drawing a consensus on issues related to science, technology and current events. It is completely interactive and currently has just under one thousand users and is gaining exposure every day. It is going to be awarded the title of Electronic Entertainment show from the National government this year. I believe that a wide application of this system will within the scope of your scientific publication and I would urge you to check it out.

Dwaine Hewitt, telecommunications company

How Fast is Cellular?

I loved the fact-based article you "Two and Two Don't Make Cellular Faster" in June. It was most interesting. And I did not see any review of the modern speed while using cellular. It has been able to make use of it with a cellular I would like more work on. I mean how. The man I have been able to maintain in 1990 using Motorola's modem and Internet Day phone and it is a modem and Internet Day phone.

Thank you for your informative article.

Mike Lewis, via Internet

BT speaks. Your post is well taken. Because of the greater probability of a cellular phone connection to a host line — mobile strength of signal within a cell and potential signal disruption at hand-off points — data transmission is slower and less reliable over cellular. Beyond the year with 16.4 cellular modem cannot be used to the 1995 and a mobile transmission rate with professional.

Research note, published by AT&T, Pasadena, for the AppleLink cellular transmission shows that completed cellular calls range from 100 percent with stationary cellular phone lines to as low as 33 percent when the calls were being attempted in moving vehicles. We're also not that with our AppleLink cellular modem. The data transmission rate over cellular depends on speed, even though the card is rated at a 14.4 kilobits per second. When connected to a land line, the rate will tend to drop and fall at the round 14.4 kbps, however.

Sightings Steven M. Johnson



During evening class hour, finding tips, comparing records, are working to show with nothing but a computer terminal. This, they're not just a few but a few. During evening class hour.

IBM Grabs at Lotus



to do show this year is the Comdex Multi-media Showcase which highlights developments of multimedia systems, software and digital publishing. They promise to be a lot of attention focused on Windows World also as the eagerly anticipated August release of Windows 95 quickly approaches. No doubt, savvy developers will be showcasing their Windows 95 ready applications. LAN Traps will feature Europe's first introduction of virtual joint-ventured local area networks. Europe's online will also provide future open system developments.

In its previous years, their keynote address by industry leaders will be featured throughout the show. Multi-media Presentation and CIO IBM Canada Ltd. will give the Comdex Canada keynote address on July 15 from 1-2pm. On July 16, from 9-10am Robert McDowell, Vice President, Software at Customer Microsoft Corporation will deliver the Windows World keynote and on July 16 David Dobson, Co-chairman, Ingram Micro Inc. and CIO, Ingram Micro Canada Inc. Company will deliver the distribution keynote from 9-10am. All keynote addresses

will take place in the John Robit Theatre in the Metro Toronto Convention Centre.

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Exhibit hours are July 12-13 from 10am to 5pm and July 14 from 10am to 5pm.

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Comdex Canada '95



IBM Corp has initiated a hostile takeover of Lotus Development Corp by offering \$200.5 million for 100 percent of the stock of Lotus. IBM made its bid public on June 5 and that paper with the US Security and Exchange Commission the following day.

In a same move, on June 5, IBM Chairman Lou Gerstner said the computer industry was entering a new phase where "all of the competing pieces of an enterprise are broken together." He said both Lotus and IBM have been working separately in the market of computing.

Lotus plans application for this model is Notes which every office is the most instant application in this new style of "networking" computing. Notes Server version 4.5, available for OS/2 and Windows while clients are available for Windows, OS/2 and Macintosh. Lotus also has a set of productivity applications including Lotus 1-2-3 and Pro Writer Graphics and Organizers as well as a popular e-mail package called ccMail. All except Organizer are available for Windows and OS/2.

Along with a new release on the planned takeover IBM has advanced a letter London and to Lotus from Jim Mani. The first part read:

"Dear Jim,

"As you know from your conversations with IBM Senior Vice President John M Thompson IBM has been interested for some time in pursuing a business combination with Lotus.

"Because you have been unwilling to proceed with such a transaction, we are withdrawing this offering our interest to buy all of Lotus Development Corp's outstanding common shares for a price of \$40 per share or \$2.0 billion."

See news. This story is not beginning. —

ED

Comdex hits Toronto in July

It's back...

The World's First All-Toronto event, July 12-14 in the Metro Toronto Convention Centre and Windows to prove you again that it's Canada's premier computer trade show back in Toronto three years ago. Comdex Canada — including Windows World and LAN Traps — has descended the competition and killed it. Major trade show heavyweights such as the Canada Computer Show and Macworld.

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Continued from page 66

The system also comes with a full-featured sound system with multipoint high-resolution color monitoring, CD-ROM drive and a 14.4 baud modem. They also come pre-installed with System 7.5, various productivity applications and a number of educational and entertainment CD-ROM titles.

Available in its edition, the Apple Video System lets users create slide sets, multimedia by capturing and editing video sources from a camcorder or VCR as a real-time window. A TV system adds a front-end allows people to catch their favorite television programs while working at their Performas.

All Macintosh Performas are available from Apple Canada dealers and start at an estimated street price of \$2,290 — \$3,545.

Contact: Apple Canada Inc. 800-477-0880

New Brunswick to Get On-Line Education from Microsoft

The province of New Brunswick and Microsoft Canada are getting together to create an initiative "virtual campus" to deliver on-line education using the recently announced Microsoft Online Initiative.

Initially targeted at school aged children coming from Kindergarten to Grade 12, the initiative will provide students with access to courses and content locally at their own school. They will also be able to interact with other on-line students from around the world.

The Microsoft Online Initiative will for students later in on-line classes that will be accessed anywhere in the world 24 hours a day. New Brunswick will contribute all of the content offered, while educational professionals provide the on-line content. This initiative a group of Microsoft technical experts will train a group of educational professionals how to use Microsoft's on-line content and development tools to provide course material — \$2.5M.

Contact: Microsoft Canada Inc. 800-588-0494

Canadian Firm Supplies Hardware at Halifax G7 Summit

Madison's Fibrecom was chosen by the Canadian Government to provide the latest technology and telecommunications solutions for the Group of Seven Economic Summit, which took place in Halifax from July 1-7.

The summit G7 summit brings together the heads of state from the world's largest economies for high-level discussions relating to trade issues and economic policies.

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Visit us at CanadaGIG.compuServe.com in Toronto, July 12-14.

Continued on page 68

What's New

Continued from page 12

technology's acceptance, and was asked to deliver a solution to meet the world leaders' needs to obtain information quickly and reliably. Estimates varied significantly — per-based solutions for instant two-way communication with the leader's research officers, combining fibre optics technology with Tagline Personal

System 68K tablet computers. Personally, time-critical information had to be communicated via telephone or fax.

Jim Clark, a Vice-President at Pitkinco, said that the remedy's use of their per-based solution "minimizes the complexity and effectiveness of the technology as well as the broad range of applications possible." — R.S.G.

Contact Bill Lee Marketing Group on 905-477-9450

Official Olympic CD-ROM

SEA Multimedia plans to release the first official Olympic CD-ROM, entitled Olympic Glory, due to be released later this fall. The International Olympic Committee have granted SEA Multimedia an exclusive license to provide a comprehensive multimedia account of the hallowed four history

of the summer Olympic Games beginning with the original Athens 1896 Olympics through to the Barcelona games. The CD-ROM will use written biographies of social winners and video footage to illustrate high points from Olympic history.

Designed to provide an educational and entertaining insight into upon and the summer Olympic games, Olympic Glory will also contain an interactive history lesson, along with statistical record of Olympic achievements. — R.S.G.

Contact: The Glorious Official Multimedia 905-884-1000

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ENIAC Inventor Dies At 76

BY KENNETH MAIZE

HALE, PA. (AP) — J. Presper Eckert, co-inventor of the world's first digital computer, died June 3 at Bryn Mawr, PA, at age 76.

Eckert was a researcher at the Moore School of the University of Pennsylvania where he began working with John Mauchly in 1940. They completed building the first general purpose digital computer in 1946.

Later that year, Eckert and Mauchly formed a business partnership that became the Eckert-Mauchly Computer Corp. In 1948, Remington Rand acquired the firm company and changed its name to the Univac Division of Remington Rand.

Remington Rand in 1950 merged with Spang Corp. to form Spang Rand. Eckert was a Spang executive when it merged with Remington Corp. to become Unisys.

Eckert retired from Unisys in 1970, but continued to consult for the company. He was granted 87 US patents, mostly for work on computers.

Eckert received numerous awards for his work, including the US National Medal of Science in 1969, presented by President Lyndon Johnson.

Eckert is survived by his wife of 10 years, Julia Eckert of Gladwyne, Pa.; his daughter Laura Phelan; three sons, John, Christopher, and George; and three grandchildren. □

No Film, Processing On Your Desktop

Affordable Digital Cameras Arrive

BY JAMES OMURA

Last summer Apple established color digital photography for around \$1,000 with the introduction of the QuickTake 100. The question was, which direction would development take?



A. Sutter (standing), Apple Computer Sales Rep (left), and Corbis CEO (George Fierman)

Products Reviewed

Apple QuickTake 100
Corbis QV-10
Nodaki DC-10
Logitech Professional Webcam

Four cameras have been introduced to answer that question. In fact, both the Apple and Logitech products are jam-packed with Novada's (formerly Kodak) new chips at the core and featuring Corbis as the only real challenge to the Kodak presence in this price range.

While lower cost products are always desirable, as are "home products." So far the trend is to make better products. Cost has dropped as well, but mostly in the sense of getting more for your money.

Although prices are still not fairly inflated, the business cases of the current group will probably be the Apple QuickTake 100 which will sell for about \$1,000. This is approximately the price of a typical QuickTake 50 and a few months ago the current entry-level price for the Kodak and Logitech just a bit higher, and Corbis has just more thanled it again.

The current focus is still on the industrial market including and on the business professional "documentation," photography, and photomicroscopy. But even if you're not of those, you may be tempted to try this technology first on.

What's Good?

Many people can attest to jumping into

digital photography and so wondering if this is a good time. There are a lot of factors to look at, but they boil down to:

1. whether the system can take acceptable pictures,
2. how easy it is to change these pictures, and
3. how much cost projection?

Also most important at this stage is to compare the use of these ways to other tech solutions.

Picture Quality

The first question is what quality of picture can be taken? Technically it is apparent in advertising, the measure for what's good is accuracy of reproduction. For traditional photography, the question is "what level of resolution can the camera/film give?"

It boils out that even this is a hard question to answer, with a lot of factors involved. But this can take a typical standard lens and "digital line" system give at least 40 images per inch at 50 percent contrast in full color. A competitive specification for digital technology would be 1440 x 960 pixels at 24 bit color.

For 10 megapixels, the above result would still not be considered very good. For digital photography, however, that figure would make a camera make good — good enough, for example to change in the range of \$10,000 for that amount of money you can buy a Fujitsu T2000/25-035 (Apple) Color Camera which runs at 3.5 million pixels (1,280 x 1,024) CCD and 16-bit colors.

What can you do at roughly \$1,000? The Logitech is the best camera of the group, but even so, each of the 100 pixels is a size on the Logitech's sensor, so only one of the three needed colors (red, green or blue) in terms of independent "bitweight." The Logitech can only guarantee the equivalent of 256 pixels. The size of the image data is reduced and so is the resolution. But the image is not as sharp, and is generally brighter, but compared to traditional technology it is still dealing with a reduced level of quality. The first picture are closer in quality to "good" illustrations in upper priced formats.

As Good As Video?

How does that compare with a full current video cameras and a capture digitizer? There are a few options to look at, but there are some supplies along the way. While capture boards may claim and a 480 x 344 bit resolution, there is only real resolution of the original digital source has that much information at the start.

Video compression quality cameras, even with Hi-8 and S-VHS, are based on 1/4 inch sensors that have only 350,000 pixels (even a 640 x 480 image has 307,200 pixels) and like the digital camera, each pixel is either red, green or blue. Moreover, there is a lot of latency due to the video compression. Video capture digitizers can do an acceptable job for some purposes, and if you have access to upper end video cameras with higher resolution sensors (2.0-3.0 million pixels), multiple sensors you will have enough information to

make good use of high resolution capture circuits. However, compared to this at the \$1,000 price range, the digital still cameras are very attractive.

Availability

The best estimate is that all these latest cameras will be on the shelves by the end of June.

The Camera



Apple's changes from the original QuickTake 100 to the QuickTake 150 have been extensive. The main difference is that the camera itself has double the storage (2MB of flash ROM). New lens coatings no doubt will improve image quality. Apple claims that increasing the low resolution mode to 440 x 440 resolution while still holding 32 images was accomplished by "compensating tech usage." No details have been provided yet of what that means. The new close-up attach stand device gives valuable for cataloging small parts.

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Miscellaneous Features and Specifications:

Apple QuickTake 386:

- Video output
- Programming for laser and raster
- Images show up less quickly for 386 - 24 frames with no offset
- Macintosh-like 2-D software
- Minimum QuickTake 1.5 software

Information from Apple was incomplete but the following specifications for the QuickTake 100 probably apply to the QuickTake 386:

- Size is over 10x10x10, weight: 100g w/batteries
- Lens 4 mm f/2.8 - 3.6
- Focal lens 4 to 10 milibars
- Shutter speed 1/1715 - 1/500 sec.
- Sensor (800 K)
- 3 A/D channels

Canon:

- Built-in recording, NTSC
- Define own still or all shots
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- Close-up 1/16 to 1/4 in from lens

Contacts

Perivision Products Inc.

3020 Winston Way
Mississauga, Ontario L4X 2T4
(905) 882-0787

Dynatec Inc.

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Apple Canada

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- Exposure compensation + or - 1 stop
- Frame rate pictures 30 pictures
- 30 sec 30 sec delay timer
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- 60A (1/60) allow up to 600 pictures on 1000 batteries or up to 1500 images using NiCad batteries


Kenale:

- Power consumption +500 mW standby, 1.5 W operating
- Viewfinder and wide angle adapters optional

Logitech:

- Speed 1 picture per 5 sec.
- 1/60 adapter requires 1/2 stop 1/60 1/2 stop, center position 1/3



WHAT IF THE INTERNET CAME WITH POWER STEERING, CRUISE CONTROL AND HELPFUL TOUR GUIDES?

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pressed so that it can play on your video monitor in real time. So much for the real-time deadline. Here comes the fun part.

Digital Editing

The fun part is the editing. Speaking very generally, editing is done through software programs specifically designed to do cut and paste and manipulate video files (usually called in Video for Windows (VfW) or QuickTime (MOV) files) and MPEG to create a new. A bonus is that many of these programs come bundled when you purchase a capture board.

Here, if you have to purchase and copy, only you'll find them more reasonably priced, starting as low as \$300 to \$300. Some programs are available on-line in Apple's State Of The System Modules 1.0 and Adobe Systems' Adobe Premiere 4.0. For the Mac, also consider Premiere as well as Adobe VideoMate and Macromedia's VideoMate. There are lots of programs to choose from, so decide what you need and want to achieve before purchasing.

Most of these programs have a reasonable learning curve as you'll figure out how to use them pretty fast. A large number are based on a timeline (which is pictured as a film strip) representing the duration of your digital video. To assemble your video, insert, delete, copy, or delete your video and audio clips in the positions along the timeline where you want them to appear. Later, once you have edited your project, you can add transitions (fades, dissolves, wipes, etc.) and other effects such as titling, 3D and 3D graphics and more.

Some editing programs come with their own preview monitors. Others don't. Almost all are capable to accept plug-ins from other programs that offer a wide variety of fantastic tools.

The Big Encoding

So you've created a masterpiece, now what? You could drag all your friends and family in front of a set of 400 monitors and screen your movie. But that's a little like a classic. More likely you'll want to export your video. If you have a writable CD-ROM drive (don't we all?) that's one option.

A more realistic one, and the best way to reach the largest audience, is to export it to analog video. It is a medium like a videotape. For this we must go back to your capture card. A few, but not very many, capture cards have just that output to analog. More likely you'll need to purchase a VCR or VCR+converter. Now you can dump your video in a VHS VCR. Isn't that easy?

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A Computer For Couch Potatoes?

BY GEOF WHEELWRIGHT

The Compaq Presario 930 CDTV has been my main desktop computer for the last six months and we have been through a lot together. The machine came to me in the dying days of 1994 when NHL hockey was still in limbo, the infamous Intel Pentium chip "bug" was starting to become the butt of computer industry jokes, and Microsoft chairman Bill Gates was only the second-richest man in the United States.



Now that the ice chips have fallen where they may, the Presario is sounding like quite OK, and Gates is once again America's top capitalist. It is time to take stock of my first "information appliance." For the latter phrase is what the marketing gurus at Compaq decided the Presario should be called.

So What's In An Information Appliance?

In all the recent advertising for the Presario the essential fact that you are being encouraged to buy a home computer is hidden in the small print. The machine is sold as a replacement for the TV (in this machine, the answering machine is the CD player because it can carry out the functions of all these devices with varying degrees of success).

The biggest gripe is to improve on how the machine uses the TV screen in the system. Using an obsolete TV board from a very young up the whole idea of having a cable-ready TV or maybe even PC was highly attractive.

Until I started working with the Presario I had seen many different attempts at allowing affordable desktop video and TV functions on a PC — and always found that the only systems which were at all impressive usually cost the earth and did not always deliver what they promised.

Put on the Presario. Priced competitively with other similarly specified systems I don't have the TV functions the Presario 930 CDTV lacks a microwave oven design. The drive is in the main under up drive while also including a MicroChannel processor designed to be upgradeable to Pentium technology. A 325 MB hard disk, 5 MB of RAM standard (expandable to 128 MB), a double-speed CD-ROM drive, a built-in 16-bit bus multimedia monitor, 16-bit stereo sound, a MIDI/piano port, two 16-bit full-resolution video cards and "Compaq Intersect" (the drive has two internal and three external) enhanced local bus video. I 800 video (also expandable to 2 MB), and a 2.1-megabyte 1.44 MB floppy drive.

What Can You Do With A TV In Your PC?

After the initial enthusiasm of supplying friends and family with the appearance of TV programs hidden underneath an Intel spreadsheet or a Word file help page, I put some serious thought into what the feature TV in the Presario could actually do for me.

As it happened I already had a TV in the room that acts as my home office, so the idea of having a TV in my place at work was not actually new. This was quite useful, however, as it helped me to focus more tightly on the question of exactly what unique things a computer-based TV could do for me.

The last thing I discovered was that the concept of having a TV in one on-screen window while working with another didn't work particularly well in most applications. When it was most pleasing or working with a spreadsheet the screen really needs to be on the data I am working on, not on the latest status of the precious fuel, oil, or the day.

It was not worth wondering the screen will never be as applicable when I already could achieve just by clicking the remote control on the portable TV in my office. Once I gave up on the idea of actually being to work in a while it was working, the whole computer-TV thing started working a lot better for me.

If I was faced with something like CR, Microsoft or CBR, it was quite useful to have the TV acting behind my active working window, and then ALT Tabbing to the TV screen when I had something into doing cooking up. The experience was like the playing the Minsky function. This will bring up a scheduled TV channel at a specified day and time. A maximum of 15 events are allowed in the application.

Continued on page 38

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The Presario CDTV

Continued from page 27

having video with a little something extra — so the having a TV on in the background while you are working and watching your feed around when you have something interesting.

Six months into the TR-PC experience, I now find that the only thing I need to use the TV is either when there is some big, breaking story underway or if I am watching the "Week

With Web and find myself getting extra bored when waiting for a page or an image as I compare Web page to be downloaded. Chances are while you are with nothing provides the perfect use for Internet television.

Software is the Key

If you actually want to play with the content of a TV show (recording or all) leave and observe the copyright rules about in any commercial television production, there are some fun things you can do with the TV tuner that go above and beyond finding new

ways to watch TV.

The built-in Compaq "TRC" software that comes as part of the Presario MediaVista, for example, allows you to freeze and save images from TV shows. The only problem here is to finding a file format to save a 5-second TV image in. Compaq MediaVista provides the saving images in everything from 8-bit gray to full 24-bit color in Windows BMP, TIF, EMF, GIF, ICO and WMF information format.

The better the quality you have on the saved image, the more data space it takes up. And after allowing several hundred kilobytes

of space to be eaten up by saving a fairly low resolution image of 100 lines/line and 100 lines/line (as required to format a screen required — I have seen actual saved copyright images and nothing quite a whole lot like the saved images in the built-in Compaq package). I don't see find this anything more than time-intensive annoyance.

If you have access to better image-capturing software, that perhaps more interesting than the TRC built-in or Presario is and perhaps look the Position opposite, then this could end up being quite useful, particularly if you allowed the video signal to the TV tuner is coming from your PC. This would then allow you to incorporate your own still video images into presentations without having to buy a video capture card. I suspect I also might have been somewhat more impressed with this application if I had an application which could read files saved in the TRC MediaVista format.

Printing is another improvement that even this after a while, being able to print "live" TV images direct to the laser printer (as its use, but the quality of your printer will have a lot to do with whether or not it is even worth trying, there it would have been nice to have a good, high-quality color printer to try with this "live" video TV images do not look much more exciting than old episodes of "Which Way Love?"

The down side, this option on the TRC application is, however, represent something you can have more fun with. Unlike a normal TV where the most you might have for most content is some form of "picture-in-picture" on expensive TVs, the Presario TV software lets you view in all an area of the screen to answer questions like "what happens if I zoom in on that area once by the galaxy here?" Sure you have control to you are also allowed to pan around the zoomed screen area and search to the answers to any TV questions which may appear.

And, of course, you can change the size of the display window in anything you like. The rule of thumb seems to be that the smaller you go, the higher-resolution you go. You can even go full screen, which, doesn't look too bad if you are willing to watch it from as far away as you would normally watch a TV. Overall, however, I would have to say I was positively impressed with the high quality of the screen display, which is far better than you'll see from most multimedia viewers and QuickTime movie players for desktop Windows PCs.

The Mega Channel Changer

There are some other unique things you can do with this TV because it resides in your computer. In fact, and on cable TV channels, for example, you just use the "Screen/Preview" menu to bring up a display box in which broadcasting or cable channels can be set. Up to 100 alternate channels can be set for each type of broadcasting system.

So, for example, select from All Channels button to automatically scan the TV signal for channels that the board can receive. Then hit the "I got all the channels programmed into my Presario."

To manually add a channel to your "favorite TV channel" list, you select a broadcast system and a TV channel. Enter the name in the space marked Name. You then select any entry in the Favorite Channels list and then click Add to add the channel. The channel number with the channel name will appear in the list.

Finally you can schedule your Presario to "wake-up" to you at certain preset times or

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Adventures at Camp Silicon

Continued from page 11

tion of computer applications.

More Related is a whimsical "game" where each workshop participant has something new to contribute to the virtual world. In "word files," campers create and adapt their own virtual models. Last year's ideas ranged from adding a car with a bouncing head to grilling off at the top of a Ferris

wheel. One activity which is new with great enthusiasm is the writing up of a video conferencing network.

The full day, week long session runs from 26 July 1, 10:00 AM open to youth aged 13 to 21. Cost is \$200.

For information, contact Faculty of Engineering, Carleton University, Ottawa K1S 5B6-8550 or (613) 845-5125-9443 ext-3333 e-mail: adventures@carleton.ca

Adventure Virtualite

This camp is strictly in French for francophone youth. But it is more than a camp. It is also a development project to translate technology content in English, to French and target the appropriate cultural gaps, so that it is more relevant and accessible to their interests. The topic is "Virtual it" and they will come "à leur bandeau" division of the camp is looking for sponsors to help cover the cost of translating Netscape's HTML help pages. The site is to make available a francophone



version of the Internet's most popular software: Libre the Carillon and MilleMille group (described later). They completed that task with not mentioning "Libre Mille, Science Guy" in the classroom very often. They would like to get excited about high tech and its possibilities.

Last year the curriculum included web-based multimedia projects, virtual reality, 3-D animation and video conferencing. This year they hope to add projects in artificial intelligence and designing structures with games. Because Adventure Virtualite is based on the Carillon model, the emphasis is on technical activities that can be implemented at home or in a home use, such as Project Skills.

The weekly, full day program runs from July 1 to August 4. Cost is \$110.

For more information contact Adventure Virtualite, Université de Québec, 6141 St-Jérôme St, Québec, Québec Q1K 2R1, Canada. E-mail: adventure@uqam.ca

High Content, Hands On

Adventures in Engineering Computing, the Virtual Ventures/Adventure Virtualite is taught by university students, many of whom are doing introductory assignments. These students were often frustrated by the lack of technology and science taught in high schools. They are trying to fill the gap with high-level content and hands-on application that may be continued at home when camp is over. What these groups do not realize but become obvious is the enthusiasm and shared characteristic glow with which the organizers are developing their programs.

This camp concentrates on hands-on activities with a student to maximize use of it. They hope to attract a 90-100 budget rate to encourage more young women to become involved in computing.

Basic computing skills are required. It is not a "one day" program. A "virtual" activity "virtual" provides additional content to help them at a high level. With a theme of creating projects in engineering development, a section by Professor MacCadden delivers into the history and evolution of computers and speculate about computers of the future.

As the name implies, the Virtualite camp is aimed at engineering. For example, one day theme computers based projects relating to which students learn how to "model" large mechanical design problems. One such problem would be how to break the space shuttle down into manageable parts.

One day is set aside for building and demonstrating a simple digital circuit and downloading, importing, and troubleshooting a computer workstation. A week long project was the engineering design

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Continued on page 14

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Advantages at Camp Silicon

Continued from page 52

work from brain scanning to demonstrations using multimedia skills learned at other camps.

A CAD/CAM activity involves designing an airplane wing or possibly a desk for the backyard. Each camper is assigned an area to address the real, six-sided day in camp. As soon as the design and construction team including modeling on the World Wide Web. Advantages have set up at the end of the camp.

(http://advantages.org/economics.c) along with an ITT logo (http://advantages.org/economics.c)

However, a discussion of the real world and the social responsibility of computers were virtually impossible topics in the implementation of backing and reading. A multimedia philosophy of this group is that computing comes from their living a report on a camp. They want campers to experience the diversity of applications from programming to a graphical environment to creating multimedia documents with word clips and animations, as well as connections to use a variety of platforms, such as OS/2, Macintosh and IBM PC systems.

Computer-related activities by Camp Silicon and possible careers to come with a knowledge of engineering or computer programming are discussed. The attempt to get a grip on many levels of computing may seem daunting.

Helping by the schedule. Advantages at Advantages wants to tell it all with the order from construction of an experience. The report writing materials show the lack of availability of this kind of program when they were in high school. As a result, they are highly motivated to provide others with a window into the excitement and range of computer technology.

The camp runs weekly from July 1, August 15, 1995, with sessions including grades 10 and 18 (1000) 484-1001 (1000) 484-1001.

For more information contact Advantages at Engineering Computing, Mathematics University Faculty of Engineering, Office of Federal Relations, 1000 Queen St. E. Unit 1001 (1000) 484-1001 (1000) 484-1001.

Other University College-based camps

More Computer Programs of Royal University and Children's Camps

University of Regina, 1000 Queen St. E. Unit 1001 (1000) 484-1001 (1000) 484-1001.

I would like to see the Internet is the last camp topic this year. This camp is no exception. Communications programs including hypertext and the Internet will be explored, along with Netscape, spreadsheet and Logo. A variety of "math art" programs will be used to create HTML pages. "Flying wordmaker" links to the latest information in many fields: graphics, text, tables, sequences, and is motion may offer an interactive experience. With two weeks, this camp has some interesting possibilities.

SUMMER COMPUTING

Computer Connections '95

University of British Columbia, Vancouver, BC

Continuing Education, 1000 Queen St. E. Unit 1001 (1000) 484-1001 (1000) 484-1001.

This camp also explores the Internet and multimedia in a hands-on setting. Campers will learn to set up and control hardware and software, learn to use the Internet, in small and large groups, to work together and on-line discussions. They will also create multimedia sound and graphics projects.

North Columbia Institute of Tech

College Multimedia CD-ROM Camp

Phone: 1000 Queen St. E. Unit 1001 (1000) 484-1001 (1000) 484-1001.



1000 Queen St. E. Unit 1001 (1000) 484-1001 (1000) 484-1001.

In this case, kids will make their own multimedia CD-ROM disc using all the video, audio, word processing and computer. They will be guided through the process by students from the local high school.

Camp participants will also get lessons on Internet as they will get a chance to design their own Web page.

14th Annual Summer Computer Camp

Faculty of Continuing Education, University of Calgary, 1000 Queen St. E. Unit 1001 (1000) 484-1001 (1000) 484-1001.

The program group has a camp called Computer Fun for the Young. The two older groups have a variety of "computer" camps, from an introduction to computers to programming using LOGO, QuikBASIC, C++ or Pascal. Various offers are camp on using the Internet and Internet. Call 1000 Queen St. E. Unit 1001 (1000) 484-1001 (1000) 484-1001.

Commercial Computer Summer Camps

Potomac Computer Learning Centers

Apex North America, 1000 Queen St. E. Unit 1001 (1000) 484-1001 (1000) 484-1001.

Potomac offers a variety of well-organized camps that should appeal to young children. The latter should be available at all branches. For example, in Potomac, the special PC camps put together a comprehensive

The Presario CDTV

Continued from page 27

To add as many as you select the broadcast system and TV station used on the set — in hours and minutes — to the "What to Watch" line. Just the programming, a VCR, you can view about the day or choose MPA to make the most about every day and specify a program length in minutes of between 1 to 99. This specifies the length of time the TV allocation in minutes "watch" before it goes dormant. This might be useful if you want to be reminded of some important broadcast that you don't want to miss during the business day — or for a three day run going to watch in bed that you know will put you to sleep (but even say that the TV switches itself off) automatically when the program is over.

Inventing Uses For The Technology

Underneath the "TV in a PC" is still a technology looking for a real application. Where internal TV sets located with "digital PCR" software — or allow you to easily store highly-compressed video in Compaq data format such as MPEG-1 or QuickTime — then this whole area will become much more interesting. If there are further breakthroughs in the development of low-cost add-on "video-plug" and video-compression technologies to be used with internal PC TVs, this could also prove a strong attraction for video on the desktop. This would also have to be accompanied by cheaper high-speed data links and the availability of low-cost high-quality video-cameras.

At it is, the whole thing is lots of fun and actually does have some a little interesting because of the many things it can do. If you want a TV on your desktop it is still one of the best ways to buy one and get it on your desk and not on your monitor.

My final word on the CDTV is that it is probably as close ahead of the time Compaq has done a nice job of getting a consumer TV done as a desktop PC and has featured some good software to turn it into a far better TV than anything else in the house.

What would really make this a compelling application — and drive me to want to buy a PC with a TV tied to it — is software that would allow me to record my favorite TV shows or better movies into a high compressed file, save them and even add PC based titles and so be it isn't possible to do that in a machine priced at under \$500.

Computer Camps

Continued from page 28

out laptop PCs including their own, mothers, are most often hooked to a computer and connect it with a program kids use themselves. For Young Inventors, children sign on-line up (over and over) "teaching" people to present and print. There is a different lesson daily to maintain interest. An age screen and up the topic. Campers learn languages and computer basics. Early enrollment makes a lot of sense.

Robotics

Southwest: Microsoft & Ontario: Canada: Tel: check for local listing. Various camps, age groups from 6-12. Half day fee from \$200. Cost \$100. Full day at \$200. (Preston Park, Ont. 800)

using children ages 3-7 create their own animated adventures complete with sound effects in Techno-Boom camp. Older children ages 8-14 taught to enjoy Techno-Boom. They will learn how to draw, write, design, create a database and keep a log of the

code the "media" that you learn on Tech mobile computers. Other camps include: National (in which kids travel the globe exploring their Techno-Boom), as they go through the Internet create maps electronically and present and discuss the diversity of the world as they fill their Techno-Boom. These are some good ideas but that should keep camps excited. Techno-Boom starts that their purpose is integrating computer into real life education. Parents and supervisors. Rates of one instructor per four students. One computer per child. 2

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BY BOB MACDONALD

I asked both IBM and Seenix Technology to send me anything at all that they would market as an "economy" system so I could poke around for myself to determine just what you might get in that category. Mustering as much high-school Stanislovsky as I could possibly recall, I assumed the role of "typical consumer" and took a quick look at what a novice... or casual purchaser — the most likely candidates for a budget system — might notice.

IBM PC 330



33044 + monitor) the "330" was a fairly heavy (plaid) box and the model sits at the lower end of that. And at 14 inches, we already knew the monitor will rate a "lower end" designation despite its upper price.

However, consistent with IBM's long-established reputation for quality, I wasn't writing cheap about the physicality of either components. The computer itself is nicely heavy and the metal cabinet will give you less of confidence in terms of longevity — especially if you've got kids or even cat-based computer gamers in the house. The peripherals all look up to usually tested VLSI parts and the power button, though a bit wobbly, sticks a solid service "bullet" when pressed. The cabinet has a handle — and lockable — sliding panel to prevent industrial spies (and little pranks) from tampering with your system.

Likewise, the 14 V monitor is a fairly piece of hardware as its heavy plastic housing (the case which hides the digital audio controls) that means push-button control of knobs is confidently shaped and the controls themselves are highly responsive under their protective plastic covers. It only took a bit of fiddling to get the edge-to-edge image I prefer and the picture was just as bright and clear as you'd expect from a 14-inch monitor (displaying nearly a 200 price tag).

A quick peek inside the computer showed three empty expansion slots — one ISA and one VLB — along with a pair of 70-

IBM was to attractively packaged PC 330 480 002, a flat-panel display model driven by an Intel 80386 processor. The package includes a standard IBM keyboard and mouse, 12 MB of RAM, a 1 MB video card and a 270 MB hard drive, plus pre-installed PC DOS/4.0, Windows 3.1, some utility software and an extensive set of on-line documentation and manuals to keep you in the technical nature of the system. This modern machine was accompanied by IBM's 14 V 1-inch, 28 dot pitch color-enhanced video monitor.

The suggested price for this test system was \$2,245 plus \$700 for the monitor making the total your \$2,945. You of course, will get to email for confirmation.

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Good monitors are practically invisible. We might occasionally, briefly, notice our personal computer's monitor when we sit down at the computer and press the monitor's power-on button. If someone else has been using the computer, we might have to tilt the monitor to a more comfortable viewing angle.



BY JEFF EVANS

There are many things to be aware of when buying a computer. The monitor provides, and is often overlooked in the usual computer purchase, a window into the computer's world. A good monitor is a good investment. It is a window into the computer's world. A good monitor is a good investment. It is a window into the computer's world. A good monitor is a good investment. It is a window into the computer's world.

The Bad Old Days

Monitor technology has advanced in tandem with the increases in computer CPU speed, graphics card technology, and applications software. Early computers could only produce dot-matrix, low-resolution, low-resolution displays, and computer monitors matched those needs. As well, computer monitors originally shared a lot of features with HDTVs: interlaced scanning. Most of them had low 15 Hz line frequencies and interlaced video displays. This meant that they flickered so badly that they were extremely difficult to watch for long lengths of time.

Ergonomic Evolution

Monitors are now a lot better than they used to be. They are now a lot better than they used to be. They are now a lot better than they used to be. They are now a lot better than they used to be. They are now a lot better than they used to be. They are now a lot better than they used to be. They are now a lot better than they used to be.

Today's monitors are a lot better than they used to be. They are now a lot better than they used to be. They are now a lot better than they used to be. They are now a lot better than they used to be. They are now a lot better than they used to be. They are now a lot better than they used to be. They are now a lot better than they used to be.

What To Look For

A decent monitor in 1995 should meet or surpass a minimum set of features. First, the phosphor dot or stripe pitch (the distance between the dots or stripes) should be 24 mm or less. That means that the distance from the center of one dot to the center of the next dot is 24 mm or less. That's the pitch. It's the distance between the dots or stripes. It's the distance between the dots or stripes. It's the distance between the dots or stripes.

The image should be flicker-free, bright, clear and sharp with very small dot and stripe pitch. It should be flicker-free, bright, clear and sharp with very small dot and stripe pitch. It should be flicker-free, bright, clear and sharp with very small dot and stripe pitch. It should be flicker-free, bright, clear and sharp with very small dot and stripe pitch.

color of least 1000 output (in desktop publishing terms, the monitor's color should be closely matched with Pantone CMYK color) and, if the monitor is to be used for graphics, there should be color calibration options to allow the user to adjust the color display on the monitor.

The monitor screen should have anti-glare coating to reduce annoying reflections. It should automatically turn on a relatively wide bandwidth of pixels (including video signals from the PC). The monitor should be compatible with all the output frequencies of the video card that it is supposed to work with and should be able to display a wide range of images with a refresh rate of at least 75 Hz, or 75 Hz, even more will lead to better display results and eventually contribute to better for long periods. If the monitor has the graphics card, it should support at least 75 Hz, then the user is more likely to have optimal results.

There should be a simple way to control panel on the front of the monitor with controls that allow a user to adjust the image size, display or deinterlace the on-screen image and adjust the image to suit individual preferences.

The monitor should have factory-installed settings to allow it to accurately display the most common resolution modes plus the ability to store the user's set and save custom resolution settings.

The monitor should have a good 100,000-hour

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Lenovo (IBM) makes PC flat-panel with their own line of monitors. The 15-inch T22 M970 is a very good mainstream monitor, with, as the model name suggests, low energy emission (a good deal of controls at the front, and a very comfortable height display).

CDE's 15-inch zero case C70 model, the 17-inch 170004, is one of the best products we've tested. It's unusually designed with extremely well laid out controls, and excellent, vivid true colors. In combination of quality at a mainstream price is very attractive. One nice feature, all main adjustments at a swivel up. In individual controls for blue, red, green and blue electron guns, to allow for adjustable color registration.

Display. The Display line is one of the more popular and commonly recommended brands in Canada, and the numerous models tested showed decent image quality, a moderately good feature set, and very attractive prices. In general, these monitors are a good choice for the average computer user. The 17-inch models are among the most affordable in this test category.

Highly a brand name that we had not encountered in the monitor market before, the Digital 14-inch FCH9970 is a fantastic name. It even threw us out, is a typical monitor of its class, maximum resolution of 1024 by 768, exceeds Energy Star standards on power saving, but does not meet MPSPB radiation emission standards. The image quality is reasonably good, making this a competitive entry level monitor.

Qualifier: The model 1111 are reviewed is a good entry level 10.4" monitor, which compares with Energy Star and MPSPB standards. It has a flat, non-gloss screen, a good bit better than a maximum refresh rate of 85 Hz, and a maximum display resolution of 1024 by 768. Image quality is fairly good.

MSI/ViewMaster. The MAG monitors we

looked at are among the best we encountered.

Image quality, particularly of the M9170 is excellent, and the features (an included panel resolution up to 1024 by 1280 supported by the M9P 1200 by 1024 on the D9370), and a very large maximum display viewing area. For demanding graphic display needs, the M9P 1200 and D9370 sits at the top of the line.



Magnavox. The 3 models that we tested from this manufacturer were reasonable quality, and very well priced. The styling on the 12 inch model is extremely nice with good maximum resolution (1280 by 1024), and a high refresh rate of 85 Hz to 1024 by 1024 resolution. Image quality is fairly good, though not at the level of the Philips and Sony models. For PC users looking for a value price entry level model this is a good choice.

Magnavox. The units we tested, the 15-inch C-5010GP and the 17-inch C-5020H,

were good entry level monitors, with good resolution and fairly good image quality.

ViewSonic. This company was one of the PC monitor industry leaders in past years, but had subsequently been somewhat overshadowed by the advances made by other name brands. Despite entry level prices, however, such as Diamond's color calibration, the judgment of many industry analysts was that the image quality was lagging. The Diamond Pro 1710, we tested, however, was very good in display quality, with an unusually fine 25mm dot pitch, and

Choosy moth
ClarisWorks kicks the kung

15 Inches Good, 17 Inches Better

The remarkable 15-inch monitor was pretty much the PC standard for several years (and on the Mac, 15-inch is smaller displays were the norm), but in the current PC market, the position of the 15-inch monitor is demonstrating weakness as the price of 17-inch monitors has continued to decrease. Features-rich monitors are still common in budget PC configurations. Many of the 15-inch monitors remaining are today's market outmoded—extremely well-priced, but they may lack current features such as Energy Star power saving and MPSPB low radiation emission. And how does display control options on the front panel.

15-inch inch monitors vary more widely in features and options, from no frills budget models to fully featured, quite expensive models. However, both monitors, which were formerly very expensive (often in the \$2,000 range) have continually decreased in price over the last couple of years, and are rapidly increasing in popularity as more models approach or reach the \$1,000 price barrier.

Depending on the quality of the video card and its features, 17-inch monitors are extremely well suited to demanding graphic display requirements such as CAD, desktop publishing, animation, video, and spreadsheet use.

Mac (Mac), 1995

model "Symeon Image Handling" is indicative of actual dimensions at the corner of the readable screen area. This monitor is cheaper for its size than any comparable system, and is a good choice for demanding graphics applications.

NEC. Ready To Plug and Play The NEC EP 15 inch model in the survey was one of a select group, in terms of being Windows 3.1 Plug & Play ready (we did not test this claim, as the final release of Win 3.1 and Plug & Play graphics cards are still to come) in the realm of affordable choices. However, both the 15-

epi XP 15 and 19 models are leading edge monitors, resolutions up to 1024 by 768 are supported at optimal 1152 by 900. The pixel density is claimed, with the use of a special cable (not included). NEC is one of the leading innovators in monitor technology and the only innovation one could have in recommending the product has radiated from the higher prices. NEC has lowered their product prices considerably in recent years.

TOP TEST LABS

making them a more affordable option for the PC owner with demanding needs, but a limited benefit.

Samsung. Another brand that turned out to be impressive, the Samsung 15-19, P317 and P3-1775 have earned less image quality, and more advanced user features.

Notek. A relative newcomer to the Canadian market, Notek based fields are well known for their digital cellular phones as well as for their monitors. In part I supply these are superb monitors. IBM

uses Notek as a supplier for some of their top of the line portable models. Companies appearing under the slogan, "The Samsung Monitor," these would make modified monitors for Canadians, too.

Optique. With image quality a cut above the budget price based names the Optique monitors are tested as a highly acceptable, minimalist monitor option. The 15-inch class of the 15 inch monitor is 16 inches, a very good size yielding a very fine high resolution display.

Viewsonic. This monitority named "Image 14 inch, French Moon 13 inch and Tube 17 inch are mainstream products with good features and performance at a good price. The Tube 17-inch supports very high resolution (2048 by 1536), offers 100% compatibility and has a decent maximum refresh rate of 75 Hz. The French Moon 13 has good maximum resolution (1280 by 1024).

Packard Bell. This 15 inch monitor is an excellent "Home Brand" model with a very rapid, bright display and it will also accept the Packard Bell stereo speaker option. There is no reason for concern (in particular not to acquire Packard Bell's "Monitor" monitor from the CPU).

Farnsworth. The Farnsworth C 1719 is a very good 17 inch monitor with high resolution (1280 by 1024). Mac compatibility and low magnetic resistance, though it has a slightly low refresh rate of only 60 Hz. Despite that image quality is good and the monitor is very pleasant to use. We would have liked to have a look at other products from this company, but the C1719 was the only one available within our deadline limit.

Continued on page 43

ers agree— that's out of Microsoft.

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What About This Radiation Thing?

The notion that monitors give off radiation is not a comforting one. There has been a lot of concern about, and rumors about, the possibility that sitting too far from the front of a video display terminal every day might be bad for one's health. At the same time, there is no conclusive proof that the decreasing noise emissions from a PC or a monitor cause any large, noticeable amounts of harm. The most immediate danger to computer users tends to come from hazardous work or repetitive strain injury. Lower back pain, neck pain, wrist sprains, and the hazards of electrical shock or dropping computer components onto the user. Most of these hazards can be reduced by improved ergonomic equipment and training to make computer operators.

Nevertheless, there has been a concerted move to reduce decreasing noise emissions to a very low level. The so-called MPR II (level II) standard states that monitors that conform to this standard emit very little electromagnetic radiation. One point worth noting is that every device that uses electromagnetic waves, from X-rays, emits a low level of radiation. There is concern that low level emissions pose a subtle, long term risk to people. Just MPR II compliant monitors may not be any more dangerous than the clock radio next to your bed. (Doesn't that make you feel better?)

WINTER RUNNERS' GUIDE

(Faint, illegible text at the bottom of the page)

Test results: 12/10/2016

[illegible]

1.5. Subsequent Publications

Microsoft Office	1.0.0	2.0.0	3.0.0	4.0.0	5.0.0	6.0.0	7.0.0	8.0.0	9.0.0	10.0.0	11.0.0	12.0.0	13.0.0	14.0.0	15.0.0	16.0.0	17.0.0	18.0.0	19.0.0	20.0.0	21.0.0	22.0.0	23.0.0	24.0.0	25.0.0	26.0.0	27.0.0	28.0.0	29.0.0	30.0.0	31.0.0	32.0.0	33.0.0	34.0.0	35.0.0	36.0.0	37.0.0	38.0.0	39.0.0	40.0.0	41.0.0	42.0.0	43.0.0	44.0.0	45.0.0	46.0.0	47.0.0	48.0.0	49.0.0	50.0.0	51.0.0	52.0.0	53.0.0	54.0.0	55.0.0	56.0.0	57.0.0	58.0.0	59.0.0	60.0.0	61.0.0	62.0.0	63.0.0	64.0.0	65.0.0	66.0.0	67.0.0	68.0.0	69.0.0	70.0.0	71.0.0	72.0.0	73.0.0	74.0.0	75.0.0	76.0.0	77.0.0	78.0.0	79.0.0	80.0.0	81.0.0	82.0.0	83.0.0	84.0.0	85.0.0	86.0.0	87.0.0	88.0.0	89.0.0	90.0.0	91.0.0	92.0.0	93.0.0	94.0.0	95.0.0	96.0.0	97.0.0	98.0.0	99.0.0	100.0.0	101.0.0	102.0.0	103.0.0	104.0.0	105.0.0	106.0.0	107.0.0	108.0.0	109.0.0	110.0.0	111.0.0	112.0.0	113.0.0	114.0.0	115.0.0	116.0.0	117.0.0	118.0.0	119.0.0	120.0.0	121.0.0	122.0.0	123.0.0	124.0.0	125.0.0	126.0.0	127.0.0	128.0.0	129.0.0	130.0.0	131.0.0	132.0.0	133.0.0	134.0.0	135.0.0	136.0.0	137.0.0	138.0.0	139.0.0	140.0.0	141.0.0	142.0.0	143.0.0	144.0.0	145.0.0	146.0.0	147.0.0	148.0.0	149.0.0	150.0.0	151.0.0	152.0.0	153.0.0	154.0.0	155.0.0	156.0.0	157.0.0	158.0.0	159.0.0	160.0.0	161.0.0	162.0.0	163.0.0	164.0.0	165.0.0	166.0.0	167.0.0	168.0.0	169.0.0	170.0.0	171.0.0	172.0.0	173.0.0	174.0.0	175.0.0	176.0.0	177.0.0	178.0.0	179.0.0	180.0.0	181.0.0	182.0.0	183.0.0	184.0.0	185.0.0	186.0.0	187.0.0	188.0.0	189.0.0	190.0.0	191.0.0	192.0.0	193.0.0	194.0.0	195.0.0	196.0.0	197.0.0	198.0.0	199.0.0	200.0.0	201.0.0	202.0.0	203.0.0	204.0.0	205.0.0	206.0.0	207.0.0	208.0.0	209.0.0	210.0.0	211.0.0	212.0.0	213.0.0	214.0.0	215.0.0	216.0.0	217.0.0	218.0.0	219.0.0	220.0.0	221.0.0	222.0.0	223.0.0	224.0.0	225.0.0	226.0.0	227.0.0	228.0.0	229.0.0	230.0.0	231.0.0	232.0.0	233.0.0	234.0.0	235.0.0	236.0.0	237.0.0	238.0.0	239.0.0	240.0.0	241.0.0	242.0.0	243.0.0	244.0.0	245.0.0	246.0.0	247.0.0	248.0.0	249.0.0	250.0.0	251.0.0	252.0.0	253.0.0	254.0.0	255.0.0	256.0.0	257.0.0	258.0.0	259.0.0	260.0.0	261.0.0	262.0.0	263.0.0	264.0.0	265.0.0	266.0.0	267.0.0	268.0.0	269.0.0	270.0.0	271.0.0	272.0.0	273.0.0	274.0.0	275.0.0	276.0.0	277.0.0	278.0.0	279.0.0	280.0.0	281.0.0	282.0.0	283.0.0	284.0.0	285.0.0	286.0.0	287.0.0	288.0.0	289.0.0	290.0.0	291.0.0	292.0.0	293.0.0	294.0.0	295.0.0	296.0.0	297.0.0	298.0.0	299.0.0	300.0.0	301.0.0	302.0.0	303.0.0	304.0.0	305.0.0	306.0.0	307.0.0	308.0.0	309.0.0	310.0.0	311.0.0	312.0.0	313.0.0	314.0.0	315.0.0	316.0.0	317.0.0	318.0.0	319.0.0	320.0.0	321.0.0	322.0.0	323.0.0	324.0.0	325.0.0	326.0.0	327.0.0	328.0.0	329.0.0	330.0.0	331.0.0	332.0.0	333.0.0	334.0.0	335.0.0	336.0.0	337.0.0	338.0.0	339.0.0	340.0.0	341.0.0	342.0.0	343.0.0	344.0.0	345.0.0	346.0.0	347.0.0	348.0.0	349.0.0	350.0.0	351.0.0	352.0.0	353.0.0	354.0.0	355.0.0	356.0.0	357.0.0	358.0.0	359.0.0	360.0.0	361.0.0	362.0.0	363.0.0	364.0.0	365.0.0	366.0.0	367.0.0	368.0.0	369.0.0	370.0.0	371.0.0	372.0.0	373.0.0	374.0.0	375.0.0	376.0.0	377.0.0	378.0.0	379.0.0	380.0.0	381.0.0	382.0.0	383.0.0	384.0.0	385.0.0	386.0.0	387.0.0	388.0.0	389.0.0	390.0.0	391.0.0	392.0.0	393.0.0	394.0.0	395.0.0	396.0.0	397.0.0	398.0.0	399.0.0	400.0.0	401.0.0	402.0.0	403.0.0	404.0.0	405.0.0	406.0.0	407.0.0	408.0.0	409.0.0	410.0.0	411.0.0	412.0.0	413.0.0	414.0.0	415.0.0	416.0.0	417.0.0	418.0.0	419.0.0	420.0.0	421.0.0	422.0.0	423.0.0	424.0.0	425.0.0	426.0.0	427.0.0	428.0.0	429.0.0	430.0.0	431.0.0	432.0.0	433.0.0	434.0.0	435.0.0	436.0.0	437.0.0	438.0.0	439.0.0	440.0.0	441.0.0	442.0.0	443.0.0	444.0.0	445.0.0	446.0.0	447.0.0	448.0.0	449.0.0	450.0.0	451.0.0	452.0.0	453.0.0	454.0.0	455.0.0	456.0.0	457.0.0	458.0.0	459.0.0	460.0.0	461.0.0	462.0.0	463.0.0	464.0.0	465.0.0	466.0.0	467.0.0	468.0.0	469.0.0	470.0.0	471.0.0	472.0.0	473.0.0	474.0.0	475.0.0	476.0.0	477.0.0	478.0.0	479.0.0	480.0.0	481.0.0	482.0.0	483.0.0	484.0.0	485.0.0	486.0.0	487.0.0	488.0.0	489.0.0	490.0.0	491.0.0	492.0.0	493.0.0	494.0.0	495.0.0	496.0.0	497.0.0	498.0.0	499.0.0	500.0.0	501.0.0	502.0.0	503.0.0	504.0.0	505.0.0	506.0.0	507.0.0	508.0.0	509.0.0	510.0.0	511.0.0	512.0.0	513.0.0	514.0.0	515.0.0	516.0.0	517.0.0	518.0.0	519.0.0	520.0.0	521.0.0	522.0.0	523.0.0	524.0.0	525.0.0	526.0.0	527.0.0	528.0.0	529.0.0	530.0.0	531.0.0	532.0.0	533.0.0	534.0.0	535.0.0	536.0.0	537.0.0	538.0.0	539.0.0	540.0.0	541.0.0	542.0.0	543.0.0	544.0.0	545.0.0	546.0.0	547.0.0	548.0.0	549.0.0	550.0.0	551.0.0	552.0.0	553.0.0	554.0.0	555.0.0	556.0.0	557.0.0	558.0.0	559.0.0	560.0.0	561.0.0	562.0.0	563.0.0	564.0.0	565.0.0	566.0.0	567.0.0	568.0.0	569.0.0	570.0.0	571.0.0	572.0.0	573.0.0	574.0.0	575.0.0	576.0.0	577.0.0	578.0.0	579.0.0	580.0.0	581.0.0	582.0.0	583.0.0	584.0.0	585.0.0	586.0.0	587.0.0	588.0.0	589.0.0	590.0.0	591.0.0	592.0.0	593.0.0	594.0.0	595.0.0	596.0.0	597.0.0	598.0.0	599.0.0	600.0.0	601.0.0	602.0.0	603.0.0	604.0.0	605.0.0	606.0.0	607.0.0	608.0.0	609.0.0	610.0.0	611.0.0	612.0.0	613.0.0	614.0.0	615.0.0	616.0.0	617.0.0	618.0.0	619.0.0	620.0.0	621.0.0	622.0.0	623.0.0	624.0.0	625.0.0	626.0.0	627.0.0	628.0.0	629.0.0	630.0.0	631.0.0	632.0.0	633.0.0	634.0.0	635.0.0	636.0.0	637.0.0	638.0.0	639.0.0	640.0.0	641.0.0	642.0.0	643.0.0	644.0.0	645.0.0	646.0.0	647.0.0	648.0.0	649.0.0	650.0.0	651.0.0	652.0.0	653.0.0	654.0.0	655.0.0	656.0.0	657.0.0	658.0.0	659.0.0	660.0.0	661.0.0	662.0.0	663.0.0	664.0.0	665.0.0	666.0.0	667.0.0	668.0.0	669.0.0	670.0.0	671.0.0	672.0.0	673.0.0	674.0.0	675.0.0	676.0.0	677.0.0	678.0.0	679.0.0	680.0.0	681.0.0	682.0.0	683.0.0	684.0.0	685.0.0	686.0.0	687.0.0	688.0.0	689.0.0	690.0.0	691.0.0	692.0.0	693.0.0	694.0.0	695.0.0	696.0.0	697.0.0	698.0.0	699.0.0	700.0.0	701.0.0	702.0.0	703.0.0	704.0.0	705.0.0	706.0.0	707.0.0	708.0.0	709.0.0	710.0.0	711.0.0	712.0.0	713.0.0	714.0.0	715.0.0	716.0.0	717.0.0	718.0.0	719.0.0	720.0.0	721.0.0	722.0.0	723.0.0	724.0.0	725.0.0	726.0.0	727.0.0	728.0.0	729.0.0	730.0.0	731.0.0	732.0.0	733.0.0	734.0.0	735.0.0	736.0.0	737.0.0	738.0.0	739.0.0	740.0.0	741.0.0	742.0.0	743.0.0	744.0.0	745.0.0	746.0.0	747.0.0	748.0.0	749.0.0	750.0.0	751.0.0	752.0.0	753.0.0	754.0.0	755.0.0	756.0.0	757.0.0	758.0.0	759.0.0	760.0.0	761.0.0	762.0.0	763.0.0	764.0.0	765.0.0	766.0.0	767.0.0	768.0.0	769.0.0	770.0.0	771.0.0	772.0.0	773.0.0	774.0.0	775.0.0	776.0.0	777.0.0	778.0.0	779.0.0	780.0.0	781.0.0	782.0.0	783.0.0	784.0.0	785.0.0	786.0.0	787.0.0	788.0.0	789.0.0	790.0.0	791.0.0	792.0.0	793.0.0	794.0.0	795.0.0	796.0.0	797.0.0	798.0.0	799.0.0	800.0.0	801.0.0	802.0.0	803.0.0	804.0.0	805.0.0	806.0.0	807.0.0	808.0.0	809.0.0	810.0.0	811.0.0	812.0.0	813.0.0	814.0.0	815.0.0	816.0.0	817.0.0	818.0.0	819.0.0	820.0.0	821.0.0	822.0.0	823.0.0	824.0.0	825.0.0	826.0.0	827.0.0	828.0.0	829.0.0	830.0.0	831.0.0	832.0.0	833.0.0	834.0.0	835.0.0	836.0.0	837.0.0	838.0.0	839.0.0	840.0.0	841.0.0	842.0.0	843.0.0	844.0.0	845.0.0	846.0.0	847.0.0	848.0.0	849.0.0	850.0.0	851.0.0	852.0.0	853.0.0	854.0.0	855.0.0	856.0.0	857.0.0	858.0.0	859.0.0	860.0.0	861.0.0	862.0.0	863.0.0	864.0.0	865.0.0	866.0.0	867.0.0	868.0.0	869.0.0	870.0.0	871.0.0	872.0.0	873.0.0	874.0.0	875.0.0	876.0.0	877.0.0	878.0.0	879.0.0	880.0.0	881.0.0	882.0.0	883.0.0	884.0.0	885.0.0	886.0.0	887.0.0	888.0.0	889.0.0	890.0.0	891.0.0	892.0.0	893.0.0	894.0.0	895.0.0	896.0.0	897.0.0	898.0.0	899.0.0	900.0.0	901.0.0	902.0.0	903.0.0	904.0.0	905.0.0	906.0.0	907.0.0	908.0.0	909.0.0	910.0.0	911.0.0	912.0.0	913.0.0	914.0.0	915.0.0	916.0.0	917.0.0	918.0.0	919.0.0	920.0.0	921.0.0	922.0.0	923.0.0	924.0.0	925.0.0	926.0.0	927.0.0	928.0.0	929.0.0	930.0.0	931.0.0	932.0.0	933.0.0	934.0.0	935.0.0	936.0.0	937.0.0	938.0.0	939.0.0	940.0.0	941.0.0	942.0.0	943.0.0	944.0.0	945.0.0	946.0.0	947.0.0	948.0.0	949.0.0	950.0.0	951.0.0	952.0.0	953.0.0	954.0.0	955.0.0	956.0.0	957.0.0	958.0.0	959.0.0	960.0.0	961.0.0	962.0.0	963.0.0	964.0.0	965.0.0	966.0.0	967.0.0	968.0.0	969.0.0	970.0.0	971.0.0	972.0.0	973.0.0	974.0.0	975.0.0	976.0.0	977.0.0	978.0.0	979.0.0	980.0.0	981.0.0	982.0.0	983.0.0	984.0.0	985.0.0	986.0.0	987.0.0	988.0.0	989.0.0	990.0.0	991.0.0	992.0.0	993.0.0	994.0.0	995.0.0	996.0.0	997.0.0	998.0.0	999.0.0	1000.0.0
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ERS GUIDE

1000

H. Smith, B. Baskerville, *continued*[illegible]

Abstract

Kelco Methylene DTP	1.6 g	0.88	1790 & 1834	Sol.	RUB	POL	10-100%	Coral	New Coral	MMS 94 C100	BSP	3 Rows, parts and labels
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Table 1. Summary of the 1000 Genomes Project

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[illegible]

[extra features] Actions (1) has both nouns and graders; (3) has both nouns

Key Words: Hispanics, Latinos, Latino measurement in adolescent girls

Coatings: Nylon 12, 17, 22, 36, 46, 66, 610, 612, 618, 620, 66, 66-6, 66-12, 66-18, 66-22, 66-36, 66-46, 66-66, 66-100, 66-120, 66-150, 66-180, 66-200, 66-220, 66-240, 66-260, 66-280, 66-300, 66-320, 66-340, 66-360, 66-380, 66-400, 66-420, 66-440, 66-460, 66-480, 66-500, 66-520, 66-540, 66-560, 66-580, 66-600, 66-620, 66-640, 66-660, 66-680, 66-700, 66-720, 66-740, 66-760, 66-780, 66-800, 66-820, 66-840, 66-860, 66-880, 66-900, 66-920, 66-940, 66-960, 66-980, 66-1000, 66-1020, 66-1040, 66-1060, 66-1080, 66-1100, 66-1120, 66-1140, 66-1160, 66-1180, 66-1200, 66-1220, 66-1240, 66-1260, 66-1280, 66-1300, 66-1320, 66-1340, 66-1360, 66-1380, 66-1400, 66-1420, 66-1440, 66-1460, 66-1480, 66-1500, 66-1520, 66-1540, 66-1560, 66-1580, 66-1600, 66-1620, 66-1640, 66-1660, 66-1680, 66-1700, 66-1720, 66-1740, 66-1760, 66-1780, 66-1800, 66-1820, 66-1840, 66-1860, 66-1880, 66-1900, 66-1920, 66-1940, 66-1960, 66-1980, 66-2000, 66-2020, 66-2040, 66-2060, 66-2080, 66-2100, 66-2120, 66-2140, 66-2160, 66-2180, 66-2200, 66-2220, 66-2240, 66-2260, 66-2280, 66-2300, 66-2320, 66-2340, 66-2360, 66-2380, 66-2400, 66-2420, 66-2440, 66-2460, 66-2480, 66-2500, 66-2520, 66-2540, 66-2560, 66-2580, 66-2600, 66-2620, 66-2640, 66-2660, 66-2680, 66-2700, 66-2720, 66-2740, 66-2760, 66-2780, 66-2800, 66-2820, 66-2840, 66-2860, 66-2880, 66-2900, 66-2920, 66-2940, 66-2960, 66-2980, 66-3000, 66-3020, 66-3040, 66-3060, 66-3080, 66-3100, 66-3120, 66-3140, 66-3160, 66-3180, 66-3200, 66-3220, 66-3240, 66-3260, 66-3280, 66-3300, 66-3320, 66-3340, 66-3360, 66-3380, 66-3400, 66-3420, 66-3440, 66-3460, 66-3480, 66-3500, 66-3520, 66-3540, 66-3560, 66-3580, 66-3600, 66-3620, 66-3640, 66-3660, 66-3680, 66-3700, 66-3720, 66-3740, 66-3760, 66-3780, 66-3800, 66-3820, 66-3840, 66-3860, 66-3880, 66-3900, 66-3920, 66-3940, 66-3960, 66-3980, 66-4000, 66-4020, 66-4040, 66-4060, 66-4080, 66-4100, 66-4120, 66-4140, 66-4160, 66-4180, 66-4200, 66-4220, 66-4240, 66-4260, 66-4280, 66-4300, 66-4320, 66-4340, 66-4360, 66-4380, 66-4400, 66-4420, 66-4440, 66-4460, 66-4480, 66-4500, 66-4520, 66-4540, 66-4560, 66-4580, 66-4600, 66-4620, 66-4640, 66-4660, 66-4680, 66-4700, 66-4720, 66-4740, 66-4760, 66-4780, 66-4800, 66-4820, 66-4840, 66-4860, 66-4880, 66-4900, 66-4920, 66-4940, 66-4960, 66-4980, 66-5000, 66-5020, 66-5040, 66-5060, 66-5080, 66-5100, 66-5120, 66-5140, 66-5160, 66-5180, 66-5200, 66-5220, 66-5240, 66-5260, 66-5280, 66-5300, 66-5320, 66-5340, 66-5360, 66-5380, 66-5400, 66-5420, 66-5440, 66-5460, 66-5480, 66-5500, 66-5520, 66-5540, 66-5560, 66-5580, 66-5600, 66-5620, 66-5640, 66-5660, 66-5680, 66-5700, 66-5720, 66-5740, 66-5760, 66-5780, 66-5800, 66-5820, 66-5840, 66-5860, 66-5880, 66-5900, 66-5920, 66-5940, 66-5960, 66-5980, 66-6000, 66-6020, 66-6040, 66-6060, 66-6080, 66-6100, 66-6120, 66-6140, 66-6160, 66-6180, 66-6200, 66-6220, 66-6240, 66-6260, 66-6280, 66-6300, 66-6320, 66-6340, 66-6360, 66-6380, 66-6400, 66-6420, 66-6440, 66-6460, 66-6480, 66-6500, 66-6520, 66-6540, 66-6560, 66-6580, 66-6600, 66-6620, 66-6640, 66-6660, 66-6680, 66-6700, 66-6720, 66-6740, 66-6760, 66-6780, 66-6800, 66-6820, 66-6840, 66-6860, 66-6880, 66-6900, 66-6920, 66-6940, 66-6960, 66-6980, 66-7000, 66-7020, 66-7040, 66-7060, 66-7080, 66-7100, 66-7120, 66-7140, 66-7160, 66-7180, 66-7200, 66-7220, 66-7240, 66-7260, 66-7280, 66-7300, 66-7320, 66-7340, 66-7360, 66-7380, 66-7400, 66-7420, 66-7440, 66-7460, 66-7480, 66-7500, 66-7520, 66-7540, 66-7560, 66-7580, 66-7600, 66-7620, 66-7640, 66-7660, 66-7680, 66-7700, 66-7720, 66-7740, 66-7760, 66-7780, 66-7800, 66-7820, 66-7840, 66-7860, 66-7880, 66-7900, 66-7920, 66-7940, 66-7960, 66-7980, 66-8000, 66-8020, 66-8040, 66-8060, 66-8080, 66-8100, 66-8120, 66-8140, 66-8160, 66-8180, 66-8200, 66-8220, 66-8240, 66-8260, 66-8280, 66-8300, 66-8320, 66-8340, 66-8360, 66-8380, 66-8400, 66-8420, 66-8440, 66-8460, 66-8480, 66-8500, 66-8520, 66-8540, 66-8560, 66-8580, 66-8600, 66-8620, 66-8640, 66-8660, 66-8680, 66-8700, 66-8720, 66-8740, 66-8760, 66-8780, 66-8800, 66-8820, 66-8840, 66-8860, 66-8880, 66-8900, 66-8920, 66-8940, 66-8960, 66-8980, 66-9000, 66-9020, 66-9040, 66-9060, 66-90

Pricing: Figures followed by asterisks (*) indicates estimated street prices, pricing supplied by manufacturers, please check with your nearest dealer for current prices.

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Monitor Mania

Continued from page 27

Philips: The 3-Philips monitors reviewed, the Brilliance 15A, 15B and Brilliance 17A are excellent products to a great many eyes, even from the appealing ergonomic styling and easy-to-use controls to the high resolution and high refresh rates (up to 130 Hz for the Brilliance 17A). The display quality is very good.

Viewsonic: The latest, a voluntary first from MCA/Viewsonic, offers a bright, detailed image, though with slight flicker at some resolutions, and good controls. A very accurate monitor for mainstream applications.

Samsung: One Of The Art. This was the

first time we'd seen the company, just released line of Samsung monitors, and we were impressed. They are all Plug N Play certified (as with the MC model), a claim that awaits complete verification; have the full range of control features and resolution options, and are sleekly designed and laid out. Image quality is very good. Viewsonic display controls and sophisticated color control, featuring a color position, as the one computer monitor market.

Samsung: Samsung sent one model, the 15-inch SC15M01. It is a very nicely designed model, with a variety of control options on the front, a very limited tilt, several stand, and very accurate image quality. A good entry level monitor.

Sony: The Sony Trinitron video tube is the world standard for high quality video display. Other monitor manufacturers (such as Apple) use Sony Trinitrons as the basic building block for their high-end monitors.

IBM: The 2 models we looked at had good features for their size category, the 15-inch 50 has a wide range of control options, including deepening (decolorizing) and PhotoScan control (which allows the user to control the handling of the image text).

IBM: The T20 monitors had traditionally high refresh rates (70 Hz for the 14-inch 1400G, allowing a very stable color flickering image), and the 15-inch 5000 model has very high resolution (1280 by 1024) and many sophisticated features, such as an overscan display.

Hitachi: Although the 14-inch model we tested was not MIPB standard, the 14-inch model was, and all three monitors are well

ground and have high image quality. Being in a constantly new based for entry level computers, its popularity is based on temperature but acceptable image sets and good price/performance.

Viewsonic: Image quality of the Viewsonic models reviewed was consistently very good, and the feature set and overall quality are very impressive. The 15-inch 1415 model has an excellent 76 Hz refresh rate. The 1502 model has excellent image quality, with an 84 Hz refresh rate, and maximum resolution of 1280 by 1024. This model is also one of the few Plug N Play models, and has OnView screen controls and ViewMatch auto control. Although the price is higher than the entry level models, the quality is extremely impressive and the entire line Viewsonic also has great value for the only manufacturer to select up front that the actual monitor was less than the tube size, and they let this on the status of the box. A class act all the way.

Summary

Three things became clear in the course of this monitor survey. First, monitors are not moving faster now than they were an or even years ago. They just march under the eye. Some much higher resolution, and are generally cheaper and offer better value for the lowest price. Secondly, this survey confirms the market is not just dipping price decreases — it's causing all the vendors to adapt sleeker, advanced features that very quickly, to avoid being left behind.

Keep your low power options as new virtually standard. MIPB is not as behind only the few and models don't have 5, 6,

To BNC Or Not To BNC

The usual 15 pin video cable is capable of transmitting a fairly good video signal from the PC to a typical monitor. However, if you need especially good image display quality, a dedicated cable which transmits to the BNC type connectors, will give a slightly better quality of video input to the monitor. Some of the higher end monitors support either BNC or standard video cable connections.

Interference input, the signal decline of the 14-inch monitor, and the signal growth of 15-inch monitor sizes.

For the computer, the trend is to choose large, more easy to use monitors. Finally, the main thing holding back the quality of monitors seems to be the basic quality of the materials and the way the components, in terms of size, weight and cost, in any monitor. Monitors that are large (heavier) or other high quality, are simply better than those that are smaller, still, larger, more in size of the construction quality, or better, larger, price, and high quality, are the overall.

Continued on page 42



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Specifications

Speakers (2) Windows: size is 4-1/4 x 5-1/4. One 120-hr. closed circuit and one +12 volts (all range drives in each speaker) your boots was magnetic thinking, producing a frequency response of 150-14,000 Hz. One maximum volume level controls on both resulting in a wide stereo effect.

Subwoofers (one) size is 12-1/4 x 11-1/4. One 6-1/2-hr. magnetically shielded drive producing a frequency response of 45-150 Hz. LED power indicator on front. Impedance: maximum volume and balance controls and maximum power switch. Removable cloth grille.

A true full range per channel and black long-throw mid range drivers make these a powerful professionally appointed system. Sound is very full, strong on the mid range, and the relatively large drivers in the satellites reach into bass bottom and will come from the desk, top - a nice touch. Very little noticeable distortion occurs at any level. Solid design instructions make that of the control and wires easily within the six channels of the subwoofers resulting in an astringent and consistent vibration or setting at subtle high reduction.

Control performance also makes sure things to be desired. The power switch mounting, especially on the front of the subwoofers, seems slightly activating the unit is (improvement). Also, it is impossible to increase volume on one computer without affecting the other, as there are no independent volume controls between sub and sat.

Continued on page 46

There's no escape — you're going to have to spend your money for quality audio. The systems reviewed in the accompanying table cost from \$250 to \$400 dollars and that, by no means, is the ending. That's all lots of computer low price sound speakers that come pre-packaged with computer systems and most show that all speakers that cost \$250 is a starting point in good sound. Here are some other tips.

Sound Amplifiers

If you want a third power, you're got to buy speakers with amplification. Sound boards that, the best of them, come with just a few watts of power, and that's just not enough. There's no hard and fast rule as to wattage requirements, but make sure your amplifier has no problem about cranking the volume level. Any distortion is really for the result of an underpowered amp is bad speakers.

Surprisingly, you may notice that high end systems often include a power output control that some of the cheaper don't. That usually means a different pricing system but what makes making the figure. Low powered systems are sometimes sold by the "pair" rather than their "continuous" output, thereby reducing their stated performance in the eyes of the consumer.

This sort of deception is perfectly legal, and it is not unusual to find that a system advertised as putting 100 watts is brought to its knees by a 10-watt amp. Be careful and ask to hear better buying.

The Importance of Shielding

If you're planning to place the speakers within 10 to 15 feet of your monitor, make sure you are the word "shielded" on the package (most professional speaker systems are shielded). Shielding means the speaker shield surrounding the speaker magnet (the shielded and "hot" surrounding the speaker magnet) and this prevents damage to the monitor. An unshielded speaker will, at best, cause image color to appear on the monitor, then at best give an, often permanent, damage.

Don't Ignore the Marketing Type

Don't be fooled by lower marketing just because something looks good with a high end system. It's not exactly some up sales. As to the real system, that's up to you and make sure there's nothing else that's up that will enhance the sound (such as additional amplifiers or other speakers — this does happen).

Also, don't let the word "multimedia" fool you. There's a lot of "multimedia" on the package that means to "be" can sell those small multimedia speakers for inflated prices because the consumer is fooled into thinking they're really something special. Remember, make sure a full in step and make standing there as the difference between the speakers you buy for your computer and those added to your living room stereo.

Wool Wool — Not That Sound

Although visible space is certainly a consideration, don't let that dominate your decision. There is no substitute for the bigger sound delivered by a bigger speaker especially in the lower frequencies. Okay, you won't do that if the walls between in the accompanying article are three place speakers, but "satellite" that supply the mid to high frequencies and one "subwoofer" that pumps out the low end.

The subwoofer is usually there in that there are lots of the speakers and although that gives a large space requirement, too subwoofers can be placed down on the floor virtually anywhere. As low end frequencies are semi-directional, you don't need to worry that it does, too may be that just assumes that the closer its proximity to a chair or wall the more "bass" to the room.

Not For PCs in What

If you've got room of space, and don't feel the need to have speakers on either side of the monitor, there's a whole world of options out there. Personally, I like big sound — the kind you get from satellite speakers and a good amp and I don't mind old equipment.

That I want to purchase a 10-watt Treble's monitor and a pair of quality 24 x 14-inch stereo speakers (consumer choice of brand) for a total of \$100. I've got four-channel computer sound and digital capabilities in both, and remember, nowhere did I see "multimedia" — ☐

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Canon BPC-70

Continued from page 41

did not have a solution and took down my two units of cameras to go along to a technician.

When technical support returned my call, I stated PageMaker was the stopping. The reason for the camera closure of the cartridge was that some cartridges will stop the ready and every unit in a while you will get one with a short life. I was told I needed more technical support's answers.

I was not really satisfied with the answer from technical support. Missing the scanning problem on older PageMaker so I purchased some identification of documents to have greater look images. The scanning again

appeared at the bottom of the page. I called technical support back and they could not offer a replacement but advised that I take it in for servicing since the printer should not be doing worse.

I also tested the BPC-70 and the BPC-110 ink cartridges. The BPC-110 black cartridge is supposed to print approx 45 pages at 600 pixels per inch coverage. I figured my answer was over 10 printed coverage. I printed 30 minutes, 20 letters and about 10 small messages before it died. This surprised me but older cartridges I have tried and all provided this worst longevity.

To test the color output, I did several things. First I added color to my scanner in the form of blue/teal. Then I went to search of high quality color photos to print. Overall, the color photographs came out with very respectable color. The ones I used the BPC-110 the more I was impressed with it. However, the scanning problem continued to haunt me.

Conclusions

There are a lot of good things about this little printer. It is quick and, unlike the more desk printers, the noise doesn't tell you they have to attack it. The unit is also very portable. The included replacement warranty gives you a two year in your door replacement warranty. Technical support is also free and available 24 hours, although if you have some really hairy questions, you would be best to call during business hours. The prices with the low-cost \$300 and \$400 sets, as well as all computer replacement you can expect it to be discounted after the product has been on the market for a few months. Canon shows in both color and black and cartridges along with a container to store your test sheets so they don't dry out when not in use.

As for the scanning problem, it seems to be disappearing and I was at least in a way at first. One of the best things about Canon seems to be its support network. If the problems persist they have offered a replacement unit. They made a scanner effort to enable my problems — and that was without them knowing I was reviewing the product. It is interesting to talk to support people who are actually software oriented. □

Contributed Article by: 1000 Sun Road
Mississauga ON L4T 1P7 (905) 886-7811

The Quest for Sound

Continued from page 44

The Best of The Bench

In spite of all consensus, the Yamaha unit with hands down the most advanced controls, independently adjustability between microphone and unit, and a joy to use. This was also the only three piece system that had not an ounce of heavy vibration, although the microphone would stand at high output levels.

The B37 system produces a bigger, fuller sound, especially in the mid frequencies, and its components are certainly built to last the heavy group, but both it and the other having involved that stinging and ultimately frustrating component vibration. In addition, the two-piece Viscount unit was not in the starting system, such related competition, leaving the Yamaha as the economically sensible choice of the lot.

Of course, this is not a sampling of what is quickly becoming a large market. So remember, take your time, and don't be afraid to ask if before you buy it. □

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Value: *****

(All recent DOS packages are excellent when compared to the ease of use of this DOS, but only approximately 5 years ago with your current DOS.)



Now that Windows 95 and OS/2 offer both a DOS and a graphical operating system in the same package, writing a new DOS version is less a quest to create a better operating system than it is an exercise in satisfying a customer base. Each successive version of Microsoft, Novell and IBM's DOS packages have been more complete and robust as all-around utility packages. Microsoft DOS 7.0 was the latest leader in the last couple of years — a better all-around buy than Microsoft and IBM's previous DOS — but IBM's new PC-DOS 7.0 now takes top spot.

First the basics: DOS is DOS. PC-DOS 7.0 is almost as compatible as its cousin Microsoft DOS can get. It will run virtually anything you might want to throw at it, games included, without exception. It has all the goodies you'd expect from a mid-1990s package: cluster-converted file tables, complete volume help for all elements, master-drive locking and automatic DOS and Windows version-driven upgrading, it won't. "Baby's gonna" with MULTITASKING! IBM's memory manager, text editor, hard disk optimizer, deleted file processor, and more.

The real question is, how good are the additions and do they merit the price of the package?

Installation of the five disks was quick and painless. Uninstallation, as another

matter — it has to be done manually. The full installation, as of 20MB, once completed by the utilities, backup and disk compression software. That was kind enough to include a real file compression package of every file in the package so it's a fairly simple matter to actually use the feature, even for a user that isn't sure that all operating system and utility packages had multiple compression methods.

In memory management software, MMIOPT is superior in speed and efficiency to Microsoft's MEMMAK, and can even unload DOS address space (such as the system's kernel) to memory for and very user-friendly. It recognizes memory automatically after every system change, includes a third screen (passed from Novell's) and offers posting of SMM/386 for running memory buffers. DOS programs such as CAD and spreadsheets that run within Windows, it runs very close to QEMM 6.60's performance margin for a problem loading MACHX. DOS into upper memory. It also has a feature of loading, a 15-minute service and finally through the standard and the service, it's a disaster. In fact, the MACHX DOS is not to be loaded with with PC-DOS, and another hour of fiddling to learn that it will, provided the DOS feature isn't saving up all of your extra upper memory.

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One organization, Adobe, has been reported to have to abandon and formalize as almost any conceivable business. After all, they invented Postscript, the language that high-end desktop publishing software uses to translate complex page layouts to printers.

The lights were on in someone's head at Jolite — what if we treat common screens as a Ponderprint printer and through the document press the information we could display almost anything, with as many pictures and complex formatting as we wanted? Then called the desktop browser.

One problem: PostScript files are huge. No one is going to want to download a 3 MB file to modern just to read their chat messages. It would just be slower. Adobe realized that a lot of the time organizations' chat systems keeping in standard text along the spacing between as they're more visually pleasing, e.g. the letters "MP" are actually developed a lot to there isn't a huge space between the diagonal wasn't really needed after all. We use typers that the others.

Alkins made the material super easy — they made the document super available for everyone, download from all devices.

Adobe Acrobat PDF files are fairly compact and offer very rich formatting capabilities. To make the files, you need Adobe Reader. It converts your document into the PDF format. This is the place all the people that you do choose for

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Data compression is the holy grail of electronic communication. With limited bandwidth, both on the net and via our mobile telephones, it is an important technology to make things possible, so anyone who's used G.F. XP or CompuNet Pro will agree. Without it files would move far too slowly to be usable.

Compression comes in two flavors: lossy and lossless. Lossless compression is used in those things that need to be identical to the noncompressed file. That is used for software, text files etc. Lossy compression is the other hand, it is used for things which need to be only perceptually the same as the original file. Things like audio, images and videos. There is also a

from its ice (distillation) and no one is going to complain if the bill happens to be 10 percent smaller. FUEC is a pretty example of a lower consuming instrument.

These lower rates suggest the benefits are

in our spotlight three days. Inbuilt image compression works! Image compression, and not new product that you should really check out - but this is not. Excellent audio in real-time over a 164 stream. The sound quality is what you'd expect from an Axi audio, but this is a breakthrough. It has more info.

[illegible]


This almost guarantees that it will never catch on except in niche vertical markets (and proprietary closed systems). We see vendors can forget our device all over again, it will show nothing up.

When all the commercial users are the same publishing the information, they can charge fees for the compression tools and for the use of its view and read the data they produce without having to pay for special software. The marketability of compression software increases when the number of potential consumers of the compressed product grows. The market will never grow as long as they expect consumers to keep paying every time a new compression application comes along.

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Weaving Your Own Web Site: Part II

Netscape-isms

BY NIRTH SCHINGEL ROBERTS



Learn how to add background colors to pages to grab your reader's attention.

By now you have mastered some of the basics of HTML, and are looking to further refine the code for your Home Page. You have also doubtless discovered the recent limitations of HTML, but have come to appreciate its flexibility too. You are ready to enhance your Home Page, and want to use the Netscape extensions you've heard about.

Netscape Communications Inc. has released some of their latest Netscape Navigator Web features, and with the release of Netscape 1.1 have added the ability to add backgrounds and colors, and control documents in Web pages. This article covers many of the main HTML tag extensions and changes introduced by Netscape Communications, but has a full list of some of the other changes by going to one of Netscape's many pages on the topic at http://www.netscape.com/technical_extensions.html.

Not a die-hard coder? If you skip right to the end, you might discover a list of useful, but possibly complex, tags for creating appealing documents without the effort — if.

HTML Standards

Currently, the majority of the Web browsers use the HTML 3.0 specifications outlined by the Internet Engineering Task Force (IETF). The IETF is an international standards body which has the task of describing and defining the ways tags should work for all Web browsers. Not only do they have to take into account new and obsolete HTML tags, but they also have to deal with items relating to compatibility with previous HTML specifications and creating new tags to other standards like the Standard Generalized Markup Language (SGML) — of which HTML is considered a subset.

There are also considerable international considerations to be factored in that will allow browsers to correctly interpret international character sets such as Japanese. These considerations, and the inevitable double value of international browser/operating systems, have meant that progress on the proposed HTML 3.0 specifications has proceeded slowly. If you are interested in finding out more about the HTML 3.0 specifications, check out <http://www.w3.org/WWW/WWW19940716/html30/spec/>.

For now, we're willing to wait around for the IETF to make up its mind on new specifics.

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In most cases the differences are statistical and the browsers will simply not display the desired effect, but the remedy will still be able to read your Web page. It is always a good idea to read your Web page again at least a couple of Web browsers to see how they will appear in different versions.

Not everyone in the Fido community appreciates this particular tag, and it does need to sit alongside another M.I. effort: the

<BODY </BODY>
 End of the body tag </BODY>.

The image specified in "picture.gif" would be removed and also behind the text at the end of the Web page. The URL specified does have to be legal in your Internet Service Provider - if you go to Internet site where you specify an image file to be used in the background img, make sure it is not hot link - (Internet Message can display the Web page if it is to download and process the whole background image file. The transfer the image the transfer the copy for displaying the Web page).



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This particular tag has already been defined under the current draft of the HTML 3.0 specification, so you can be relatively certain that this tag will become an accepted standard. Significantly, this tag can also be used by the latest version of Netscape browser, a great boon to Netscape.

If you don't want to specify an image file to change the background color of your Web page, you can use the background color tag in Netscape. It also works in conjunction with the standard body tag, and looks like this:

```
<BODY BGCOLOR="#0000FF"> text of the Web Page </BODY>
```

The "BGCOLOR" specifies the background color by the acronym of red, green and blue to be mixed together to produce the desired color. Unfortunately the color values have to be specified by their hexadecimal equivalent. This probably means that you'll have to do some experimentation to get the color you want, but here's a brief color guide to help you:

Color Hexadecimal Equivalents

White	#FFFFFF
Black	#000000
Grey	#808080
Red	#FF0000
Blue	#0000FF
Green	#00FF00
Yellow	#FFFF00
Magenta	#FF00FF
Cyan	#00FFFF

A fairly comprehensive list of background color values can be found at <http://www.will.cx/programming/colors/index.html>



Combining background color and picture with a table

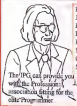
If you are changing for background color of your Web page, you may also want to change the color of the text used on your page so that people can read your text. If you specify a black background without changing the color of your text, you are going to end up with an unreadable black Web page. The first Color attribute on the Body tag, and the Background Color tag, specifies the color of the text by using a hexadecimal equivalent. A combined Background Color/Text Color tag looks something like this:

```
<BODY BGCOLOR="#000000" TEXT="#FFFFFF"> text of the Web Page </BODY>
```

In this case the background color is black, with white text. Using similar methods you can also specify different colors to be used for the types of links displayed on your Web page. In this particular Netscape case there's little to have truly caught on, but a necessary if



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you must. A Web page using a background color (like red or purple) which is usually reserved for indicating a link to another page. For more information, on the usage of background tags, in Netscape check out Netscape's own Web page on the topic at <http://home.netscape.com/learn/html/attributes/background>

Designing a effective background for your Home Page is not as easy as it might first appear. While implementing the actual background tag is fairly simple, actually getting your page to look good and remain readable is not. Home people have found, however to go overboard, and have used colors or images that make the text on their Web page unreadable, and look like a dog's breakfast.

If you want to start using these tags, make sure you experiment with different color schemes first. It is primarily a good idea to use completely different colors for the background and text color tags. While a red background with green text may look fine on your monitor, chances are it will be unreadable on somebody else's monitor. It is best

to get carried away with these tags, and to use wild color schemes only when they fit in with the content of your Web page.

Vertical Tables

Another tag-like skill in Netscape 1.1 was the introduction of a set of tags that let you put tables on your Web page. The set of table tags is relatively easy to master, and takes the guesswork out of creating good-looking tables. Because of the variety of these tags, the only way to create a table on your Web site was to rely and make a large image of a table taken from a spreadsheet program, or manually create a table using a whole host of dashes.

All tables in Netscape have to be enclosed by the <TABLE> ... </TABLE> set of tags. If you want borders for your table and most people will after the beginning tag so that it looks <TABLE BORDER> instead. Next, you have to specify the beginning of the first table row with the <TR>. You then enclose individual table data within a set of table data <TD> ... </TD> tags. Once you're done with all the table data for that row, and

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The Netscape Navigator Home Page. Here is an example of a table on a home page.

the row with the red row tag (<TR>) & table composed of two rows and columns would look like this:

```
<TABLE BORDER=
<TR>
<TD> Data #1</TD> <TD> Data #2 </TD>
</TR>
<TR>
<TD> Data #3 </TD> <TD> Data #4
</TD>
</TR>
</TABLE>
```

When this is viewed by somebody equipped with Netscape 1.0, they will see a neatly composed table on their screen. Keep in mind that not everybody uses Netscape. In this case, anybody else viewing this table will only see a jumble of data on screen.

The HTML 3.0 specification for making tables is far from being final, and while Netscape is trying to keep close to what will eventually become the standard, chances are it will not be exactly the same as the completed standard. Unless you are confident that most of your viewers will be using Netscape, it is a good idea to have an alternative way for people using other browsers. Netscape also offers a number of additional tags to further enhance the look of your tables.

There are two tags the web designer will find useful: caption, changing the size of your border, and clipping the text within cells. For more information on these tags, check out the extensive Web pages Netscape has created on the subject at <http://home.netscape.com/learn/html/tables.html> and the table sampler at <http://home.netscape.com/learn/html/tables.html>.

Embedding—GIF

Another enhancement at Netscape 1.0 is the ability to embed GIFs directly in your Web pages. To be sure this differs from making a link to a file that can simply be downloaded. By double-clicking on the GIF embedded object, it will actually launch the application associated with the file on the viewer's machine.

The linked tag is very simple to use; simply attach the filename viewer you wish to embed like this:

```
<IMG SRC="apple.gif">
```

The viewer will be given simple warning that an embedded file is contained on the page. The first time they view a non-image such a file on a Web page, a file warning sign will come up, and the visual link will stand out as a small graphic sheet of paper bearing an icon of the program it is associated with. It will then run the program that the file is associated with on the viewer's computer.

So for this particular tag here I printed much popularity and it is easily seen on the Web—a big good reason. But you have to ensure that the person has the application that the file is associated with on their system. If they don't they will simply see a "broken graphic" icon when they view the page. Since GIF is a Windows-based format, anybody using a non-Windows version of Netscape will not be able to open the object. Instead Netscape users may not get just the nice warning screen. Netscape presents what is coming across as embedded file as it warns (warning that launching an embedded file could launch a virus or pose options on some Windows to crash).

Besides this, there are advantages to using embedded files on your Web pages. If you wanted an object associated with a program found on your user's system (like a hit tagged image file, or an audio player typically used in conjunction with Netscape) you can easily open up your Web page. This tag also gives the way in which new content will be added to future browsers.

The Future of Netscape-ism and HTML?

While the HTML standard is built out the specification for HTML 3.0, Netscape Communications keeps planning to add new features for the next generation of their browser. Netscape Communications recently announced that they will be forming both new programming language, which will provide new security features, advanced scripting capabilities and the ability to run small programs written using the Java programming language.

It is likely that some of Netscape's tags will eventually be adopted into the official HTML 3.0 specification, but it is unlikely that they will all be accepted which will reduce the integrity of any Web pages that make extensive use of Netscape tags. However what Netscape has going for it is a fairly overwhelming acceptance in the Web browser market.

It remains to be seen whether Internet users (namely browsers) like the HTML or make room and create the alternative for the HTML standard. However, it is safe to say that the longer the HTML takes to develop the HTML 3.0 specification, the less interest it will be as other software manufacturers begin adopting the Netscape tags, and ease to add enhancements their own. □

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HTML Improvement Needed

by JACQUELINE SMITH

WE — The commercial publishing industry — must move on from the Web, HTML, HyperText Markup Language must be made "more robust," argues a spokesman for a company that makes online publishing software.

Right now, HTML is "very basic," says David Sussman, director of marketing for Electronic Book Technologies (EBT). But he adds, although HTML is relatively easy to use, it is tedious for example, to handle tables and equa-

tions, which HTML provides pre-coded markup language can do difficult, is defined, even as HTML applications, is sometimes as a subset of HTML — M1.

"(HTML) formatting is hard," he said, added to HTML documents. Commercial publishers don't like this because to their presentation is to imply some as important as content in differentiating their products," he says.

HTML permits only relatively small files, Sussman says. To expand an electronic document, extra hyperlinks must be created to added. "The effort required for maintenance can be rather daunting."

Recognizing that improvements are called for, a series of focus are "publishing the HTML standard forward," including SGML, Open the World Wide Web Consortium, the Internet Engineering Task Force (IETF) and many individual vendors. For days, New heading from versions 2.1 and

2.2 into version 3.0, HTML, has complied with the SGML standard ever since HTML 2.0.

Meanwhile he says, members of EBT's OpenWorld HTML authoring product are using EBT's new OpenWorld product to convert their structured SGML documents into HTML for use on the Web.

Now, he indicates, has employed OpenWorld to convert more than 1,000 pages of McGraw-Hill, InfoWise and McGraw-Hill (software developers) HTML documentation manuals from DocBook, an SGML DTD (document type definition) into HTML, according to Sussman.

Sussman's conversion process took four days, he says. Others can copy any Web browser to access content converted from SGML into HTML via OpenWorld. □

Continued EBT, 401-447-6660

CurrentTalk

Continued from page 28

early, being a member of Generation X, means my student bank report and my possibility of an obtaining a credit card might come, buying things online means. You, Millennials, to get lost. This is bad business, when many people say age on the computer Internet, redefining, redefining, redefining.

Along comes a Dutch company called DigCash, which devised a scheme for doing financial transactions online. It works a lot like using an Internet debit card, except you don't need a card either, or even a card for that matter.

There's more to work, you have a piece of software (which also happens to be one of those cool Netscape-capable disk-droids that act as your electronic wallet. You can take money out of your real bank account, and keep it in your wallet.

The bank generates electronic codes, which are downloaded into your computer using a public key cryptography technique. Each code, inside the encrypted packet, has a serial number, so codes cannot be copied, even if they are lost a file.

When you purchase something online, your wallet pays up and you approve the transfer. The transfer then uploads the codes you sent to him or her bank, where they are decrypted and you have their

account. Simple. Secure electronic money transfer without cards of any kind. If you want the finer details of its workings, check out <http://www.digicash.com>.

While Digicash isn't ready for mass use yet, leaders say they're in the middle of negotiating with various banks who wish to adopt the scheme.

There are dozens of lost sites currently accepting Digicash. Those who signed up were given \$100 in test money to go spend as they wished. One of the "cyber shops" is a comic gallery in Amsterdam which seems to be quite popular. Others have various exhibits by different artists and photographers. You pay \$1 in order each of them.

Hang on to your wallet, cyberspace. □

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But there are other sources with good career leads. On the World Wide Web, a good place to go job hunting is Farnell's Connections under "employment." There's a whole page of sources, ranging from general employment to specialized areas such as Academic, Fashion Network, and Multimedia.

In some locations, such as the People's Bank, you can post for free with employees paying the tax. Others charge you for making your current credits on that system.

PORTABLE SPECIALISTS

Country	1980	1985	1990	1995	2000
Japan	18.5	19.5	20.5	21.5	22.5
France	15.5	16.5	17.5	18.5	19.5
Germany	14.5	15.5	16.5	17.5	18.5
Italy	13.5	14.5	15.5	16.5	17.5
Spain	12.5	13.5	14.5	15.5	16.5
United Kingdom	11.5	12.5	13.5	14.5	15.5
Sweden	10.5	11.5	12.5	13.5	14.5
United States	9.5	10.5	11.5	12.5	13.5



32

100

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ONLINE

of our students to find several houses posted on the job offered news groups. Such inexpensive postings can be found at most newspapers, and are a topic for constant debate.

However, in this case the requirements may go beyond mere mail. Finding your means on a postcardable newspaper may not make you look too bright. And you might lose a potential job. As with any other group find and read the file that explains what you can and should not post on the newspaper.

Conclusion

After a week of searching for a job I reached several conclusions. As mentioned earlier there are lots of resources for people with computer backgrounds.

And there are plenty of others that could be useful here about using 600-9000 a month, send 100 for more information. I hope this will be made as much money as it is worth. These go, the week's ability set another topic of much debate on the job openings.

The storage of your computer job list, too, I believe, is simple because many employers often don't have access to the list on their computer. It's an opportunity to find good quality people.

And as with some of what is happening on the Internet the whole use of matching an employer with an employee is still missing. As more non-computer companies come online it is more likely will see the potential of using the Net to find workers. Knowing the way to find the right path my current interest: willing to wait for the right job.

Robert Bortz is a freelance writer in Memphis, Tennessee, who writes frequently about computers.

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Where Can I Learn That?

I would like a career in computers. I am interested in computer animation, but I have heard a lot about CD ROMs and the Internet. Maybe there are career opportunities in those fields. Oh, by the way I am interested in computer games too. Where should I go to get a good education?

BY MALCOLM HARRICK

I have been asked variations of the above question countless times over the past five years. The answers have been simple and nearly complete:

The opportunities to be gained are not great, and the market opportunities for digital product is too promising (to us at least). Publishers must get closer with the technologies for we understand how to develop content. They understand how to support that content with technology.

— Susan, *InfoTrack*, Devonport, New Mexico,
John Wiley & Sons

A quick check of career want ads will tell you that there is a demand for programmers, analysts, network engineers, and the like. Let me assume that these are the technologies Mr. Schryck is referring to. These honorable professions are well supported by universities and colleges. In most cases this was not the kind of "good education" I was being asked for.

I was being asked where to go to learn how to contribute to the content of the digital nature's ecosystem in a short, visible way. What technical skills should I acquire? How can I apply them after I get out of school?

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The most important result-meeting technique is the one that works. Everyone who has an idea, knows and has figured out how to market it in the marketplace legitimately will prosper. — *Developing companies and when are the economic effects of the information economy*

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We all have imagination. The real trick is connecting it to the marketplace. Improving the way technologies and connecting our company to quality. It is hard to find the business transactions to impact. Planning and budgeting prepared one or two years ago are sometimes supposed to anticipate trends and plan or beyond. Various timely resources are available. The next problem is finding potential business ideas in time. This is where we hope this directory survey will help.

What follows is a preliminary listing of facilities offering exposure to Animation and Electronic Publishing. If your interests extend or expand has been moved, contact the author by e-mail (warrick@barrick.com). We will include the tabulated results in a future issue.

On the Web...

These days, the big business has not let the role of studios or the software that runs them. The real trick is getting quality content and adding value to the technology. — *The 100 Greatest: CD-ROM World, Vol. 10*

On the Creative Studios...

Animation today for selling creative media may be intended for the use of a number of means. It may be simply because you are a beginner, but you can create regular habits by applying your creative gifts, or because you are going about your studio of animation or whatever the content is to be.

animation way

— *Sharon Collins: Animation from Script to Screen, 2nd Edition, 1994*

Animation Schools

Algonquin College, Ottawa

You can access more info through Algonquin College's web site. The media studies department can be reached at <http://www.algonquin.on.ca/home/media/designmedia.html>. Contact: Barry Hargrave, e-mail: bhargr@algon.on.ca

Applied Multimedia Training Centre

(formerly Computer Multimedia Technology Centre) 1011 Brimley Ave., Toronto (Level 1) Ontario M6H 1P4

Programs: Computer Graphics and Animation Courses, Jan. April & Sept. start of eight month program. Contact: Neil Butler tel: 966-772-0444 fax: 366-772-0444 e-mail: cmtdc@compuserve.ca

Beall Centre for the Arts

Media Arts Department, Toronto, Ont. L6B 1A5, Beall Art Tel: 593-3333

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Emily Carr College of Art and Design

1019 Johnson Street, Toronto M5V 1N5
Contact: James Davis Tel: 416-544-3440

ENAB

2675 rue Tardif, Toronto M9P 6P9
Contact: Alan Lussier Tel: 416-492-4000

International Technology Design Centre

240 Lodge Road, Toronto M2N 6K1
Contact: Jueli Hoffman Tel: 416-597-0831

Institute of Communication Arts

1045 Rue Avenue, Burnaby BC V5C 4B4
Contact: John Moore Tel: 604-298-8800

Monaghan University College

2079 Ave. Jean, St-John, BC V3T 6G1
Contact: Gary Gifford Tel: 604-757-7774
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3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 6070, 6080, 6090, 6100, 6110, 6120, 6130, 6140, 6150, 6160, 6170, 6180, 6190, 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270, 6280, 6290, 6300, 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, 6390, 6400, 6410, 6420, 6430, 6440, 6450, 6460, 6470, 6480, 6490, 6500, 6510, 6520, 6530, 6540, 6550, 6560, 6570, 6580, 6590, 6600, 6610, 6620, 6630, 6640, 6650, 6660, 6670, 6680, 6690, 6700, 6710, 6720, 6730, 6740, 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10149, 10150, 10151, 10152, 10153, 10154, 10155, 10156, 10157, 10158, 10159, 10160, 10161, 10162, 10163, 10164, 10165, 10166, 10167, 10168, 10169, 10170, 10171, 10172, 10173, 10174, 10175, 10176, 10177, 10178, 10179, 10180, 10181, 10182, 10183, 10184, 10185, 10186, 10187, 10188, 10189, 10190, 10191, 10192, 10193, 10194, 10195, 10196, 10197, 10198, 10199, 10200, 10201, 10202, 10203, 10204, 10205, 10206, 10207, 10208, 10209, 10210, 10211, 10212, 10213, 10214, 10215, 10216, 10217, 10218, 10219, 10220, 10221, 10222, 10223, 10224, 10225, 10226, 10227, 10228, 10229, 10230, 10231, 10232, 10233, 10234, 10235, 10236, 10237, 10238, 10239, 10240, 10241, 10242, 10243, 10244, 10245, 10246, 10247, 10248, 10249, 10250, 10251, 10252, 10253, 10254, 10255, 10256, 10257, 10258, 10259, 10260, 10261, 10262, 10263, 10264, 10265, 10266, 10267, 10268, 10269, 10270, 10271, 10272, 10273, 10274, 10275, 10276, 10277, 10278, 10279, 10280, 10281, 10282, 10283, 10284, 10285, 10286, 10287, 10288, 10289, 10290, 10291, 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10435, 10436, 10437, 10438, 10439, 10440, 10441, 10442, 10443, 10444, 10445, 10446, 10447, 10448, 10449, 10450, 10451, 10452, 10453, 10454, 10455, 10456, 10457, 10458, 10459, 10460, 10461, 10462, 10463, 10464, 10465, 10466, 10467, 10468, 10469, 10470, 10471, 10472, 10473, 10474, 10475, 10476, 10477, 10478, 10479, 10480, 10481, 10482, 10483, 10484, 10485, 10486, 10487, 10488, 10489, 10490, 10491, 10492, 10493, 10494, 10495, 10496, 10497, 10498, 10499, 10500, 10501, 10502, 10503, 10504, 10505, 10506, 10507, 10508, 10509, 10510, 10511, 10512, 10513, 10514, 10515, 10516, 10517, 10518, 10519, 10520, 10521, 10522, 10523, 10524, 10525, 10526, 10527, 10528, 10529, 10530, 10531, 10532, 10533, 10534, 10535, 10536, 10537, 10538, 10539, 10540, 10541, 10542, 10543, 10544, 10545, 10546, 10547, 10548, 10549, 10550, 10551, 10552, 10553, 10554, 10555, 10556, 10557, 10558, 10559, 10560, 10561, 10562, 10563, 10564, 10565, 10566, 10567, 10568, 10569, 10570, 10571, 10572, 10573, 10574, 10575, 10576, 10577, 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10864, 10865, 10866, 10867, 10868, 10869, 10870, 10871, 10872, 10873, 10874, 10875, 10876,

Tell us about the computer hardware you currently use or plan to purchase: (check all that apply)

	Personal Desktop, Net or Note	Enterprise Desktop (30 or more)	Enterprise Server	Other Use or Not	Network on LAN or In Personal	No Use In Personal
Computers						
01 IBM						
02 Dell						
03 Pentium						
04 Other Brand						
05 Windows PC						
06 Windows Macintosh						
Modems						
07 56K bps						
08 115200 bps						
09 56K bps						
10 56K bps						
11 56K bps						
Fax machines						
12 Fax (not paper)						
13 Fax (paper)						
14 Other fax						
Scanners						
15 300 dpi						
16 600 dpi						
17 Greater than 600 dpi						
CD-ROM drives						
18 4x speed						
19 8x speed						
20 16x speed						
21 24x speed						
Sound card (SPE)						
22 Yes						
Speakers (SPE)						
23 Yes (not built in)						
Modem built-in (SPE)						
24 Yes						
Printer						
25 Inkjet						
26 Laser						
27 Other (specify)						

22. How much money do you plan to spend on computers and software personally in the next three months?

- ☐ 01 \$0-\$50
☐ 02 \$50-\$100
☐ 03 \$100-\$200
☐ 04 \$200-\$500
☐ 05 \$500-\$1,000
☐ 06 \$1,000-\$2,000
☐ 07 Over \$2,000
☐ 08 Don't know

23. Do you use a computer at work?

- ☐ 01 Yes, frequently
☐ 02 Yes, infrequently
☐ 03 No, not for me
☐ 04 No, not for my business

24. Which Operating System(s) do you use at work?

(check all that apply)

- ☐ 01 DOS
☐ 02 Windows
☐ 03 OS/2
☐ 04 Unix
☐ 05 Macintosh
☐ 06 Other (specify) _____
☐ 07 Don't know

25. Which Network Operating System(s) do you use at work?

(check all that apply)

- ☐ 01 Novell
☐ 02 Netware
☐ 03 Microsoft Windows NT Server
☐ 04 Microsoft LAN Manager
☐ 05 Novell Netware
☐ 06 Microsoft Windows NT Server
☐ 07 Microsoft LAN Manager
☐ 08 Novell Netware
☐ 09 Microsoft Windows NT Server
☐ 10 Microsoft LAN Manager
☐ 11 Novell Netware
☐ 12 Microsoft Windows NT Server
☐ 13 Microsoft LAN Manager
☐ 14 Novell Netware

26. Do you have information on the purchase of computer products for your company?

- ☐ 01 Yes, the final decision
☐ 02 Yes, the initial decision
☐ 03 Yes, the final decision
☐ 04 Yes, the initial decision
☐ 05 Yes, the final decision

27. For how many computers do you have this investment?

- ☐ 01 1-5
☐ 02 6-10
☐ 03 11-20
☐ 04 21-30
☐ 05 31-40
☐ 06 41-50
☐ 07 51-60
☐ 08 61-70
☐ 09 71-80
☐ 10 81-90
☐ 11 91-100
☐ 12 Over 100

28. What is your department's annual budget for computers and software?

- ☐ 01 \$0-\$500
☐ 02 \$500-\$1,000
☐ 03 \$1,000-\$2,000
☐ 04 \$2,000-\$5,000
☐ 05 \$5,000-\$10,000
☐ 06 \$10,000-\$20,000
☐ 07 \$20,000-\$50,000
☐ 08 \$50,000-\$100,000
☐ 09 Over \$100,000
☐ 10 Don't know

29. Which of the services do you use? (check all that apply)

- ☐ 01 America Online
☐ 02 CompuServe
☐ 03 Prodigy
☐ 04 Other (specify) _____
☐ 05 Internet Access from Home
☐ 06 Internet Access from Work
☐ 07 Other (specify) _____
☐ 08 Yes, I use the Internet frequently (specify) _____
☐ 09 No, I don't use the Internet frequently (specify) _____
☐ 10 Other (specify) _____

30. Check the Internet to which you use. (check all that apply)

- ☐ 01 America Online
☐ 02 CompuServe
☐ 03 Prodigy
☐ 04 Other (specify) _____
☐ 05 Internet Access from Home
☐ 06 Internet Access from Work
☐ 07 Other (specify) _____
☐ 08 Yes, I use the Internet frequently (specify) _____
☐ 09 No, I don't use the Internet frequently (specify) _____
☐ 10 Other (specify) _____

31. How many "hits" are you?

- ☐ 01 1-5
☐ 02 6-10
☐ 03 11-20
☐ 04 21-30
☐ 05 31-40
☐ 06 41-50
☐ 07 51-60
☐ 08 61-70
☐ 09 71-80
☐ 10 81-90
☐ 11 91-100
☐ 12 Over 100

32. How many of the last 10 websites do you visit?

- ☐ 01 1-5
☐ 02 6-10
☐ 03 11-20
☐ 04 21-30
☐ 05 31-40
☐ 06 41-50
☐ 07 51-60
☐ 08 61-70
☐ 09 71-80
☐ 10 81-90
☐ 11 91-100
☐ 12 Over 100

33. How many times do you spend looking at The Computer Paper each month?

- ☐ 01 1-5
☐ 02 6-10
☐ 03 11-20
☐ 04 21-30
☐ 05 31-40
☐ 06 41-50
☐ 07 51-60
☐ 08 61-70
☐ 09 71-80
☐ 10 81-90
☐ 11 91-100
☐ 12 Over 100

34. How many times do you enter in The Computer Paper each month?

- ☐ 01 1-5
☐ 02 6-10
☐ 03 11-20
☐ 04 21-30
☐ 05 31-40
☐ 06 41-50
☐ 07 51-60
☐ 08 61-70
☐ 09 71-80
☐ 10 81-90
☐ 11 91-100
☐ 12 Over 100

35. Have you ever purchased anything from advertising you saw in The Computer Paper?

- ☐ 01 Yes
☐ 02 No
☐ 03 Not sure
☐ 04 Yes, I did
☐ 05 No, I didn't
☐ 06 Yes, I did
☐ 07 No, I didn't
☐ 08 Yes, I did
☐ 09 No, I didn't
☐ 10 Yes, I did
☐ 11 No, I didn't
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☐ 13 No, I didn't
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Variable	Mean	SD	Min	Max
Age	38.5	10.2	22	65
Gender	0.5	0.5	0	1
Marital status	0.7	0.5	0	1
Education	12.5	1.5	9	16
Income	15.2	5.8	5	35
Health status	0.8	0.4	0	1
Stress level	3.2	1.5	1	5
Life satisfaction	4.5	1.2	2	6
Work engagement	3.8	1.0	1	5
Organizational commitment	4.2	1.1	2	6
Turnover intention	1.5	0.8	0	3
Job satisfaction	4.0	1.0	2	6
Perceived organizational support	4.8	1.0	3	6
Psychological distance	2.5	1.0	1	4
Trust in supervisor	4.5	1.0	3	6
Trust in organization	4.2	1.0	3	6
Organizational identification	4.0	1.0	3	6
Organizational citizenship behavior	3.5	1.0	2	5
Organizational commitment	4.2	1.1	2	6
Turnover intention	1.5	0.8	0	3
Job satisfaction	4.0	1.0	2	6
Perceived organizational support	4.8	1.0	3	6
Psychological distance	2.5	1.0	1	4
Trust in supervisor	4.5	1.0	3	6
Trust in organization	4.2	1.0	3	6
Organizational identification	4.0	1.0	3	6
Organizational citizenship behavior	3.5	1.0	2	5

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Figure 1

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1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	

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200,000 users



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Corel PHOTO-PAINT 3.0	1245	41
Macintosh Photo-Painting 3.0	1000	40
Adobe Photoshop 3.0	1000	30
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